SONY®

DIGITAL VIDEOCASSETTE RECORDER
DVW-250/250P

Digital BETACAM™

MAINTENANCE MANUAL Part 2
Volume 2 1st Edition
Serial No. 10001 and Higher

⚠警告

このマニュアルは，サービス専用です。

お客様が，このマニュアルに記載された設置や保守，点検，修理など行うと感電や火災，人身事故につながることがあります。

危険をさけるため，サービストレーニングを受けた技術者のみご使用ください。

⚠WARNING

This manual is intended for qualified service personnel only.

To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.

Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠ AVERTISSEMENT

Ce manual est destiné uniquement aux personnes compétentes en charge de l’entretien. Afin de réduire les risques de décharge électrique, d’incendie ou de blessure n’effectuer que les réparations indiquées dans le mode d’emploi à moins d’être qualifié pour en effectuer d’autres. Pour toute réparation faire appel à une personne compétente uniquement.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer.
Dispose of used batteries according to the manufacturer’s instructions.

Vorsicht!

Explosionsgefahr bei unsachgemäßem Austausch der Batterie.

Ersatz nur durch denselben oder einen vom Hersteller empfohlenen ähnlichen Typ.
Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

ATTENTION

Il y a danger d’explosion s’il y a remplacement incorrect de la batterie.

Remplacer uniquement avec une batterie du même type ou d’un type équivalent recommandé par le constructeur.
Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

ADVARSEL!

Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

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Manual Structure

Purpose of this manual

This manual is maintenance manual of Digital Videocassette Recorder DVW-250/ 250P.
This manual describes the information items (block diagrams, board layouts, schematic diagrams, detailed parts list, etc.) that premise the service based on the component parts.

Contents

The following is a summary of the sections for understanding the contents of this manual.

Maintenance Manual Part 2 Volume 2

Section1 Block Diagrams
Describes the locations of printed circuit board, and the block diagrams.

Section 2 Board Layouts
Describes the board layouts.

Section 3 Schematic Diagrams
Describes the schematic diagrams.

Section 4 Semiconductor Pin Assignments
Describes the pin assignments, and the function explanation used in this unit.

Section 5 Spare Parts
Describes the exploded views for the machanical parts, the electrical parts list, and the optional fixtures list in this unit.

Maintenance Manual Part 2 Volume 1

Section 1 Service Overview
Section 2 Replacement of Mechanical Parts
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Section 1
Block Diagrams

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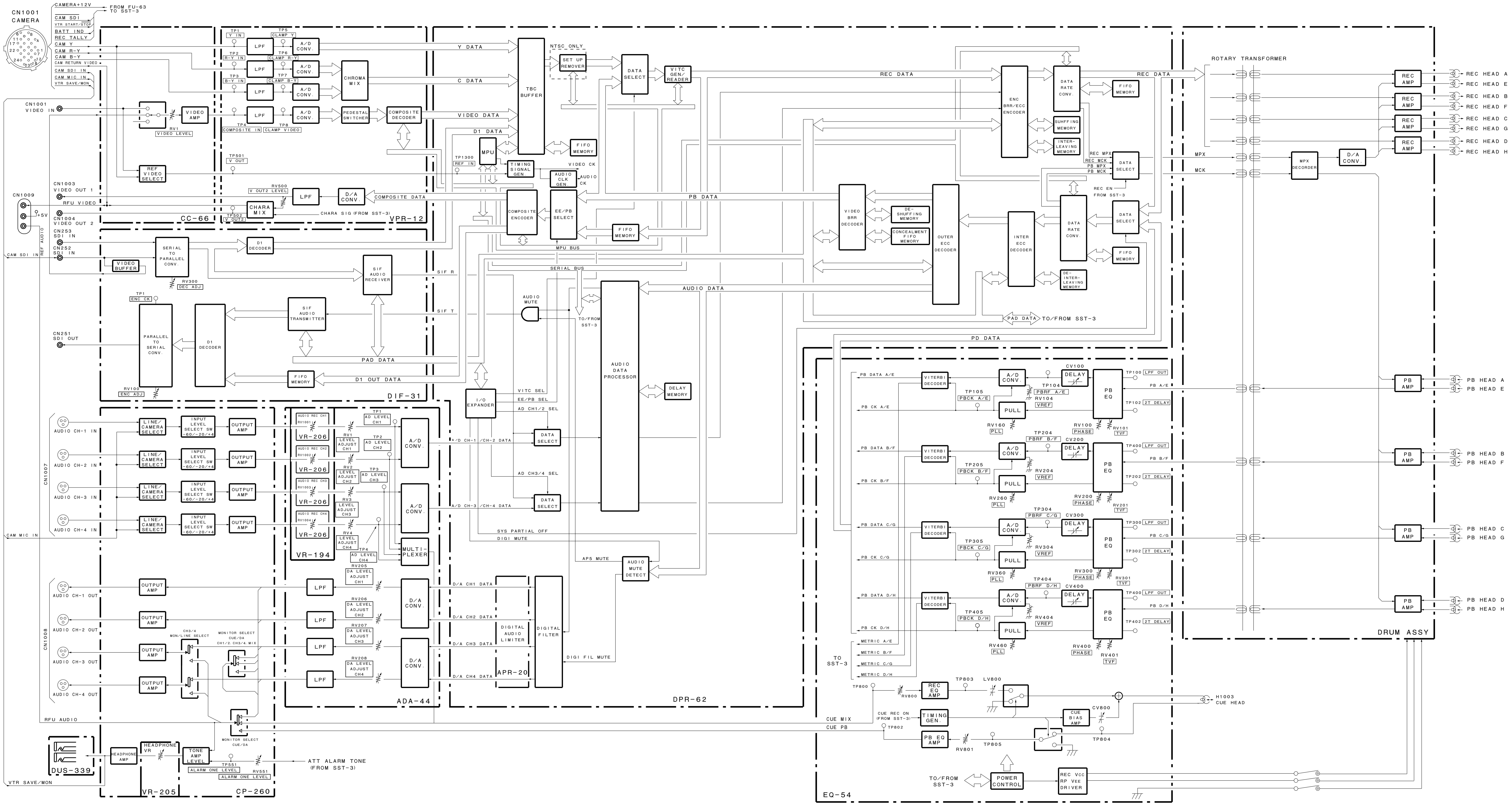
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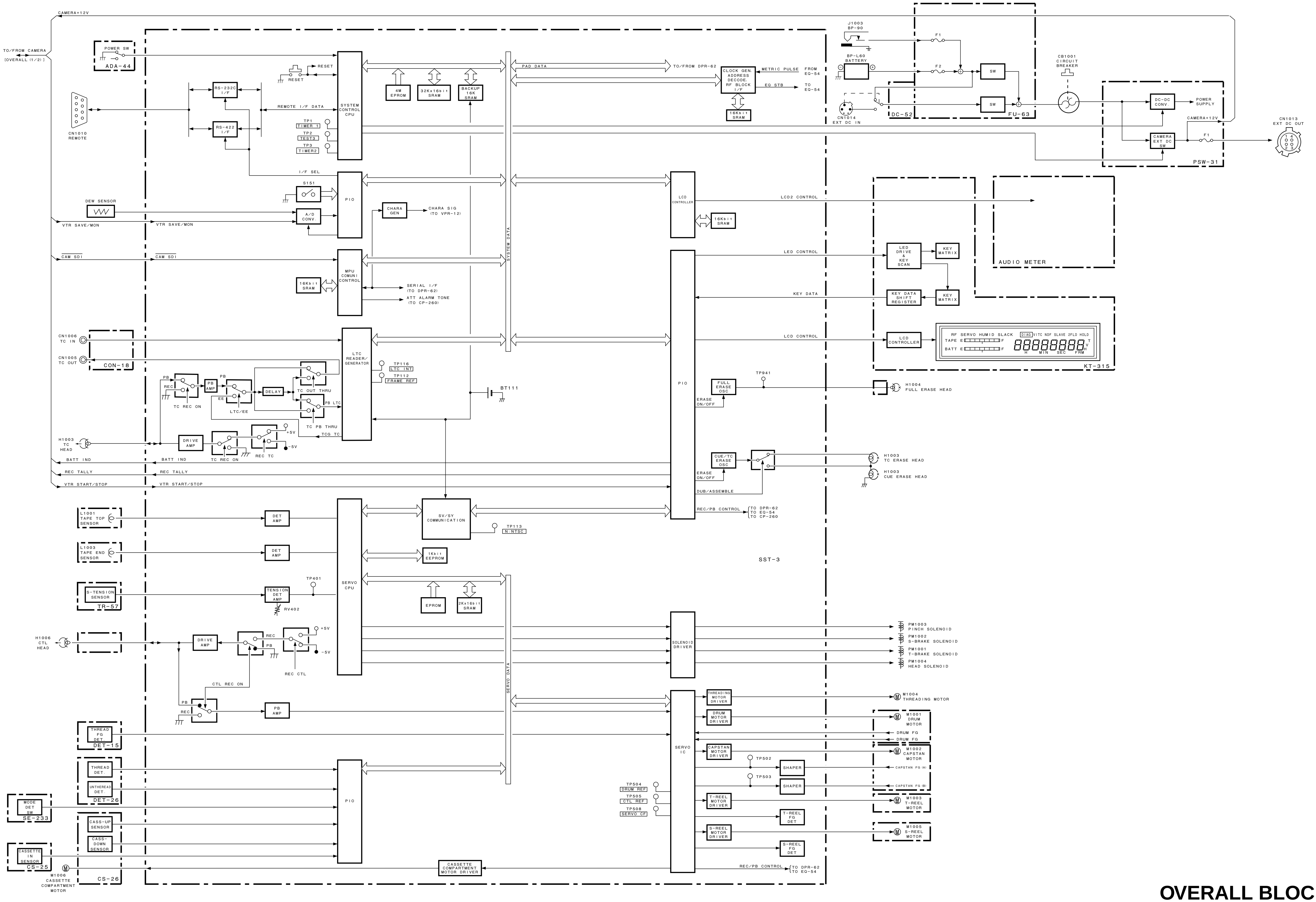
OVERALL BLOCK (1/2)

DVW-250/250P

OVERALL BLOCK (2/2)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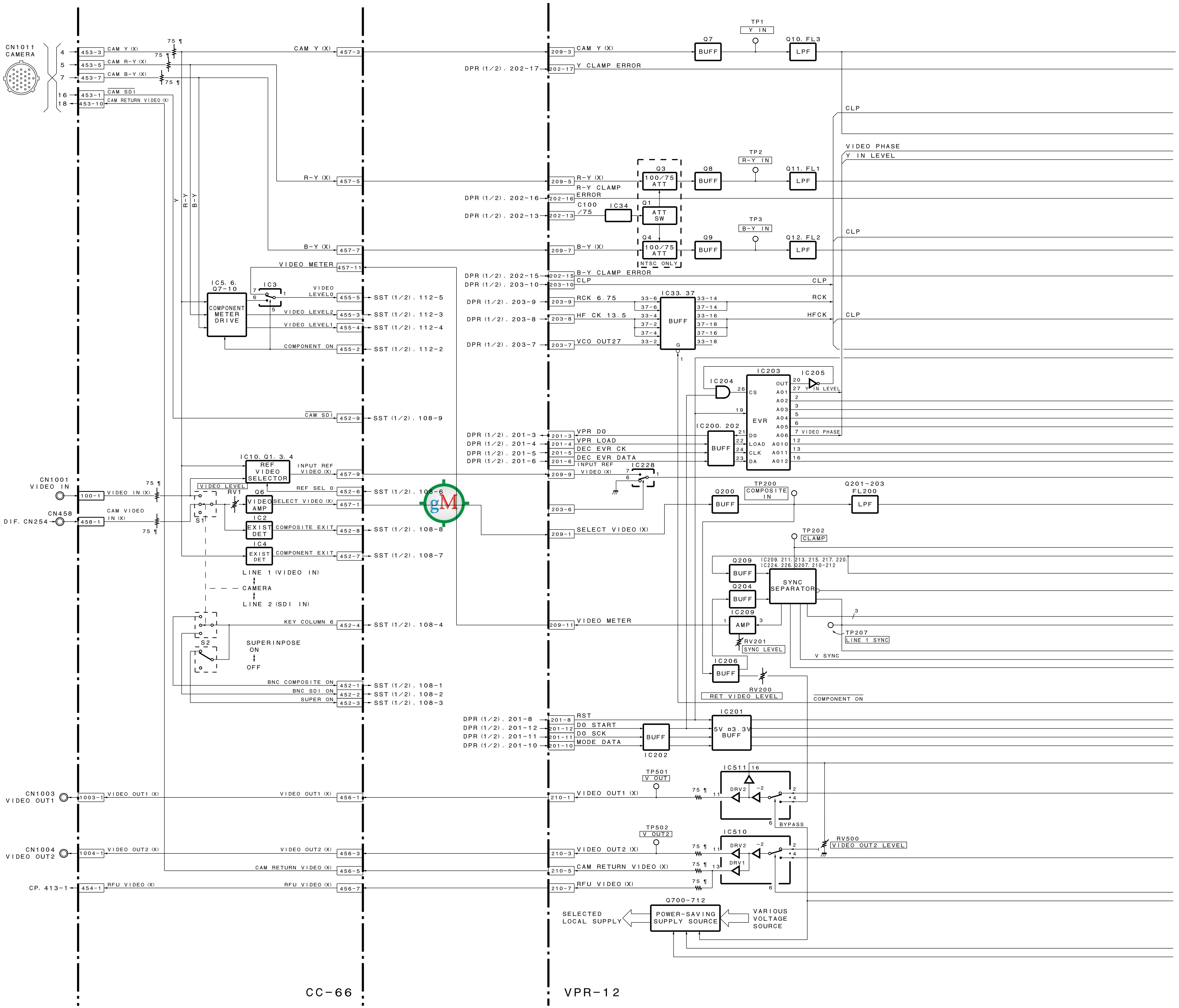
DVW-250/250P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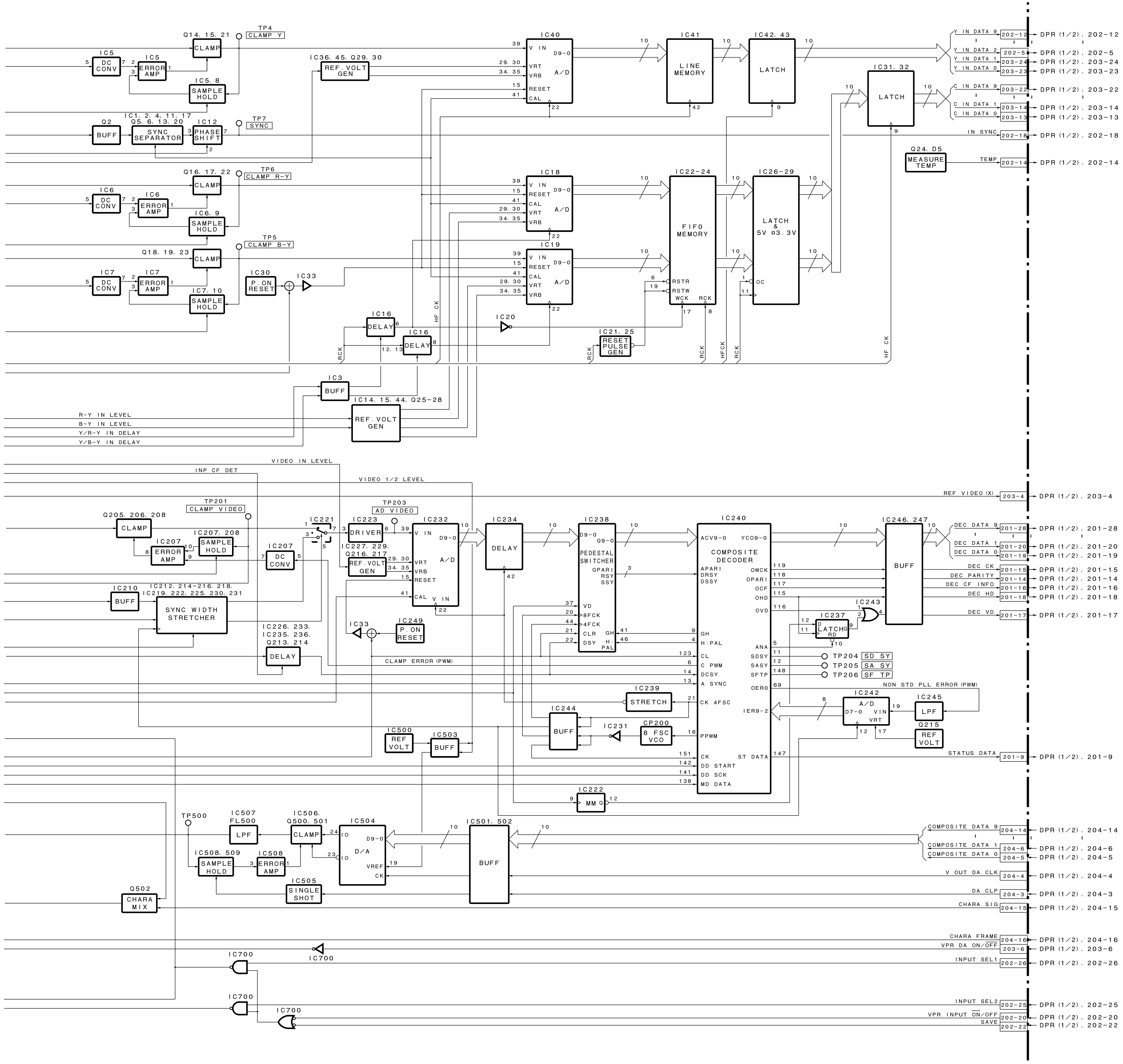
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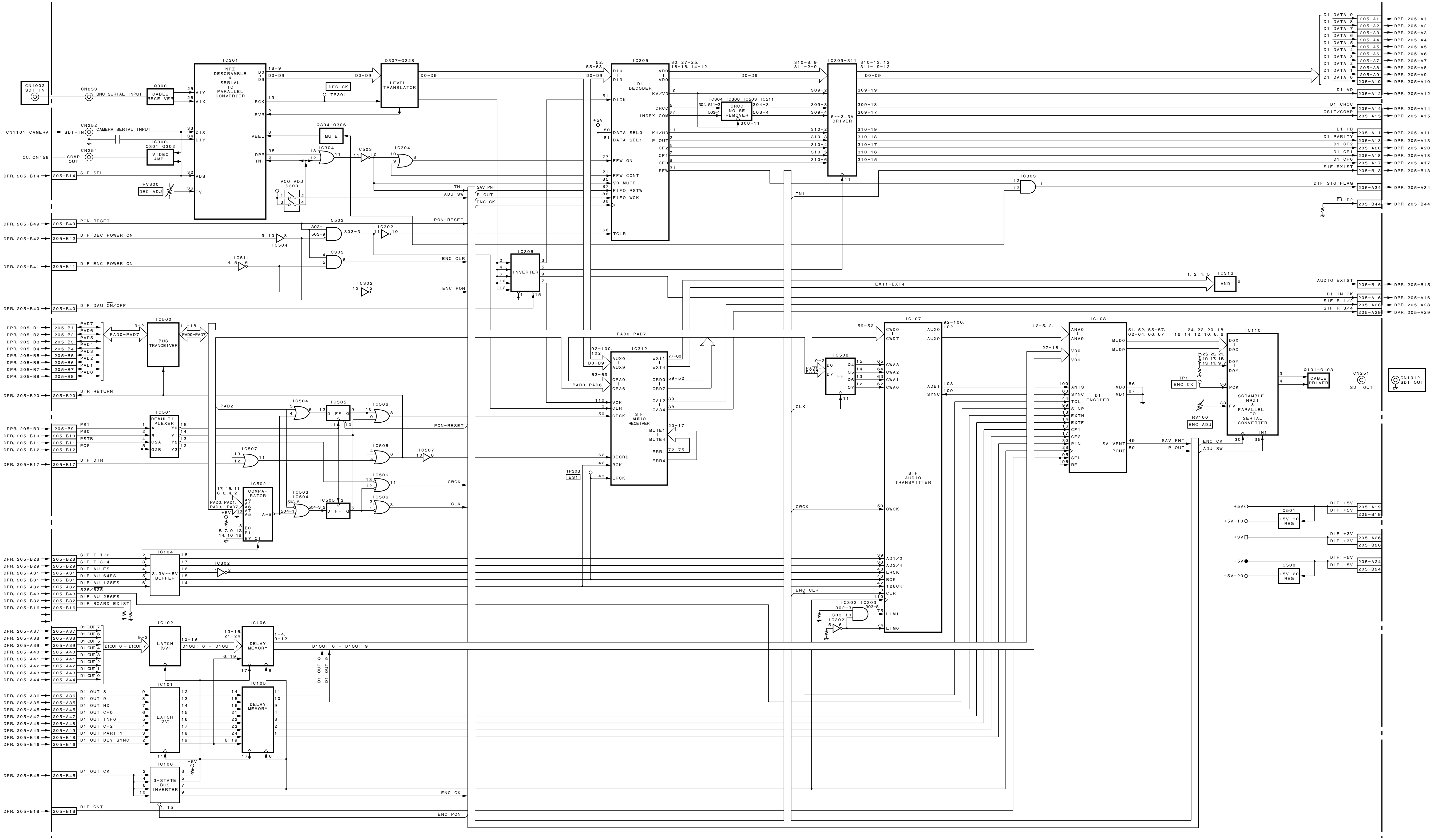
IC226, 233, IC235, 236, Q213, 214 DELAY
IC33
IC249 P. ON RESET
CLAMP ERROR (PWM)
IC239 STRETCH
IC244 BUFF
IC231
CP200 8 FSC VCO
IC500 REF VOLT
IC503 BUFF
IC222 MM
TP500
IC507 FL500 LPF
IC506, Q500, 501 CLAMP
IC504 D/A VREF CK
IC501, 502 BUFF
IC508, 509 SAMPLE HOLD
IC508 ERROR AMP
IC505 SINGLE SHOT
Q502 CHARA MIX
IC700
Y IN DATA 9 202-12 DPR (1/2), 202-12
Y IN DATA 2 202-5 DPR (1/2), 202-5
Y IN DATA 1 203-24 DPR (1/2), 203-24
Y IN DATA 0 203-23 DPR (1/2), 203-23
C IN DATA 9 203-22 DPR (1/2), 203-22
C IN DATA 1 203-14 DPR (1/2), 203-14
C IN DATA 0 203-13 DPR (1/2), 203-13
IN SYNC 202-18 DPR (1/2), 202-18
TEMP 202-14 DPR (1/2), 202-14
REF VIDEO (X) 203-4 DPR (1/2), 203-4
DEC DATA 9 201-28 DPR (1/2), 201-28
DEC DATA 1 201-20 DPR (1/2), 201-20
DEC DATA 0 201-19 DPR (1/2), 201-19
DEC CK 201-15 DPR (1/2), 201-15
DEC PARITY 201-14 DPR (1/2), 201-14
DEC CF INFO 201-16 DPR (1/2), 201-16
DEC HD 201-18 DPR (1/2), 201-18
DEC VD 201-17 DPR (1/2), 201-17
STATUS DATA 201-9 DPR (1/2), 201-9
COMPOSITE DATA 9 204-14 DPR (1/2), 204-14
COMPOSITE DATA 1 204-6 DPR (1/2), 204-6
COMPOSITE DATA 0 204-5 DPR (1/2), 204-5
V OUT DA CLK 204-4 DPR (1/2), 204-4
DA CLP 204-3 DPR (1/2), 204-3
CHARA SIG 204-15 DPR (1/2), 204-15
CHARA FRAME 204-16 DPR (1/2), 204-16
VPR DA ON/OFF 203-6 DPR (1/2), 203-6
INPUT SEL1 202-26 DPR (1/2), 202-26
INPUT SEL2 202-25 DPR (1/2), 202-25
VPR INPUT ON/OFF 202-20 DPR (1/2), 202-20
SAVE 202-22 DPR (1/2), 202-22

VIDEO SIGNAL PROCESSING


CN1002 SDI IN
CN253
BNC SERIAL INPUT
Q300 CABLE RECEIVER
CN1101. CAMERA
SDI-IN
CN252
CAMERA SERIAL INPUT
IC300, Q301, Q302 VIDEO AMP
CC. CN458
CN254 COMP OUT
SIF SEL
RV300 DEC ADJ
IC301 NRZ DESCRAMBLE & SERIAL TO PARALLEL CONVERTER
Q307-Q328 LEVEL-TRANSLATOR
DEC CK
TP301
Q304-Q306 MUTE
VCO ADJ S300
IC305 D1 DECODER
DATA SEL0
DATA SEL1
FFW ON
FFW CONT
VD MUTE
FIFO RSTW
FIFO WCK
TCLR
IC304, IC308, IC503, IC511 CRCC NOISE REMOVER
IC309-311 5→3.3V DRIVER
IC303
DIF SIG FLAG
D1/D2
PON-RESET
DIF DEC POWER ON
DIF ENC POWER ON
ENC CLR
ENC PON
IC306 INVERTER
IC313 AND
AUDIO EXIST
EXT1-EXT4
D1 IN CK
SIF R 1/2
SIF R 3/4
DIF DAU ON/OFF
IC500 BUS TRANCEIVER
PAD0-PAD7
DIR RETURN
IC501 DEMULTI-PLEXER
PS1
PS0
PSTB
PCS
DIF DIR
IC502 COMPA-RATOR
IC312 SIF AUDIO RECEIVER
TP303 ES1
IC508 FF
IC107 SIF AUDIO TRANSMITTER
IC108 D1 ENCODER
IC110 SCRAMBLE NRZI & PARALLEL TO SERIAL CONVERTER
TP1 ENC CK
RV100 ENC ADJ
Q101-Q103 CABLE DRIVER
CN251 SDI OUT
CN1012 SDI OUT
CWCK
CLK
ENC CLR
Q501 +5V-10 REG
Q500 +5V-20 REG
DIF +5V
DIF +3V
DIF -5V
SIF T 1/2
SIF T 3/4
DIF AU FS
DIF AU 64FS
DIF AU 128FS
525/625
DIF AU 256FS
DIF BOARD EXIST
IC104 3.3V→5V BUFFER
IC102 LATCH (3V)
IC106 DELAY MEMORY
D1OUT 0 - D1OUT 9
IC101 LATCH (3V)
IC105 DELAY MEMORY
D1 OUT 8
D1 OUT 9
D1 OUT HD
D1 OUT CF0
D1 OUT INFO
D1 OUT CF2
D1 OUT PARITY
D1 OUT DLY SYNC
D1 OUT CK
IC100 3-STATE BUS INVERTER
DIF CNT
ENC CK
ENC PON
DPR. 205-A1 – DPR. 205-A49
DPR. 205-B1 – DPR. 205-B49

SDI SIGNAL PROCESSING

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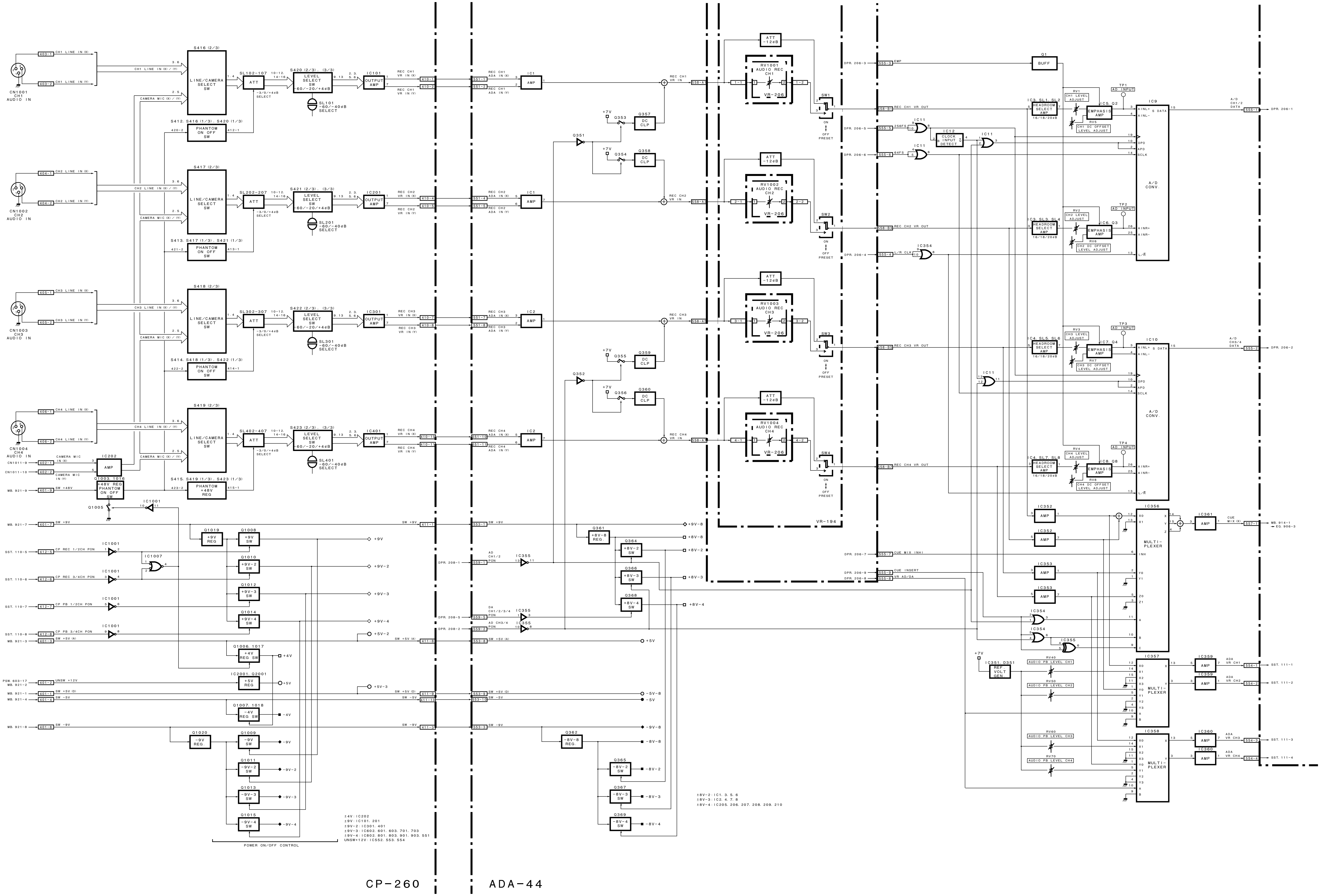
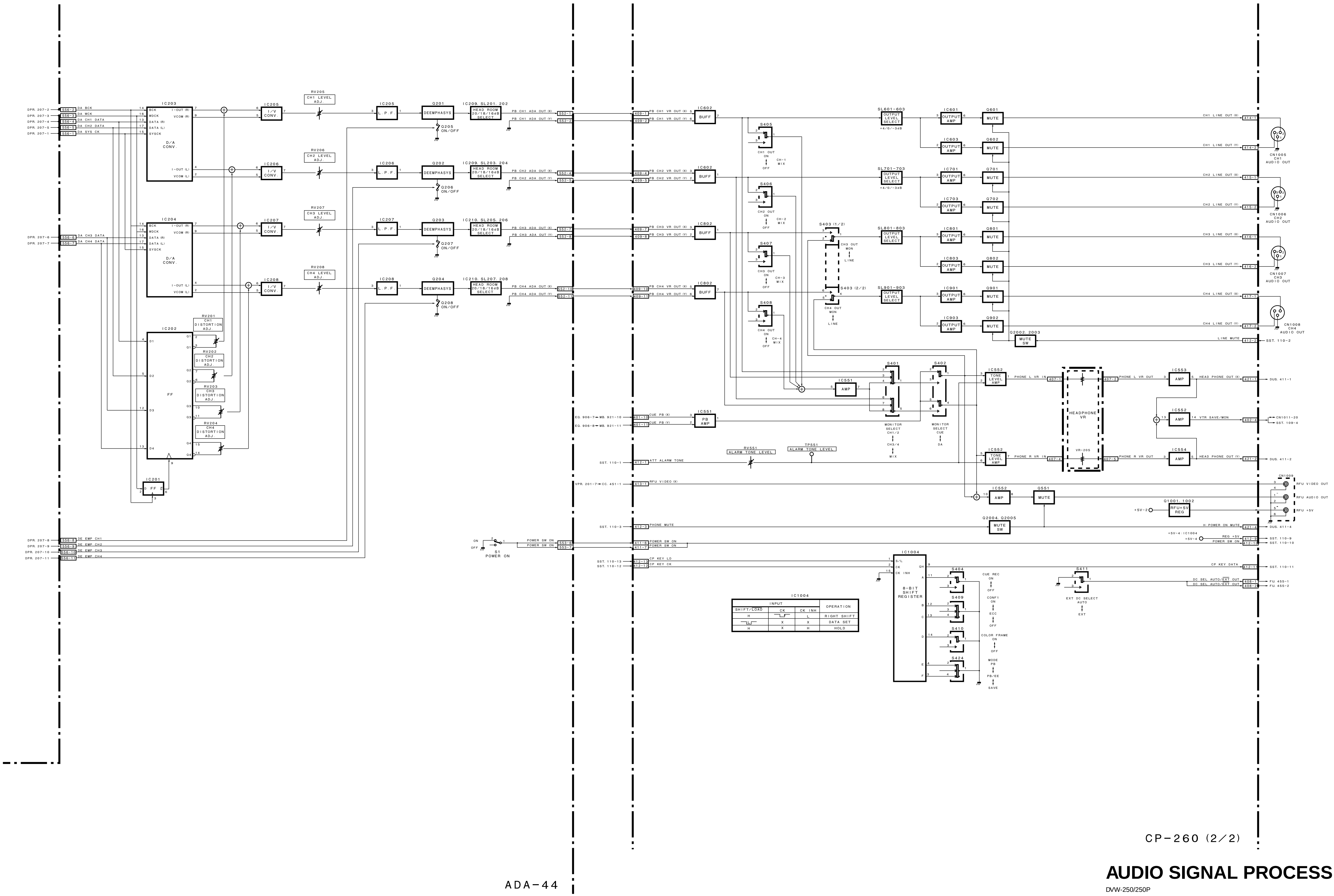

CN1001
CH1
AUDIO IN
CN1002
CH2
AUDIO IN
CN1003
CH3
AUDIO IN
CN1004
CH4
AUDIO IN
S416 (2/3)
LINE/CAMERA SELECT SW
S417 (2/3)
S418 (2/3)
S419 (2/3)
PHANTOM ON OFF SW
PHANTOM +48V REG
ATT
LEVEL SELECT SW -60/-20/+4dB
OUTPUT AMP
IC101
IC201
IC301
IC401
SL101 -60/-40dB SELECT
SL201 -60/-40dB SELECT
SL301 -60/-40dB SELECT
SL401 -60/-40dB SELECT
-3/0/+4dB SELECT
IC202 AMP
Q1003, 1016
+48V REG PHANTOM ON OFF SW
IC1001
IC1007
Q1005
+9V REG
+9V SW
+9V-2 SW
+9V-3 SW
+9V-4 SW
+4V REG SW
+5V REG
-4V REG SW
-9V REG
-9V SW
-9V-2 SW
-9V-3 SW
-9V-4 SW
POWER ON/OFF CONTROL
±4V : IC202
±9V : IC101, 201
±9V-2 : IC301, 401
±9V-3 : IC602, 601, 603, 701, 703
±9V-4 : IC802, 801, 803, 901, 903, 551
UNSW+12V : IC552, 553, 554
CP-260
ADA-44
IC1 AMP
IC2 AMP
IC355
Q351
Q352
Q353
Q354
Q355
Q356
Q357 DC CLP
Q358 DC CLP
Q359 DC CLP
Q360 DC CLP
Q361 +8V-8 REG
+8V-2 SW
+8V-3 SW
+8V-4 SW
Q362 -8V-8 REG
-8V-2 SW
-8V-3 SW
-8V-4 SW
±8V-2 : IC1, 3, 5, 6
±8V-3 : IC2, 4, 7, 8
±8V-4 : IC205, 206, 207, 208, 209, 210
ATT -12dB
RV1001 AUDIO REC CH1 VR-206
RV1002 AUDIO REC CH2 VR-206
RV1003 AUDIO REC CH3 VR-206
RV1004 AUDIO REC CH4 VR-206
SW1
SW2
SW3
SW4
ON
OFF
PRESET
VR-194
Q1 BUFF
IC11
IC12 CLOCK INPUT DETECT
IC354
HEADROOM SELECT AMP 16/18/20dB
EMPHASIS AMP
CH1 LEVEL ADJUST
CH1 DC OFFSET LEVEL ADJUST
AD INPUT
IC9 A/D CONV.
IC10 A/D CONV.
A/D CH1/2 DATA
A/D CH3/4 DATA
DPR. 206-1
DPR. 206-2
IC356 MULTI-PLEXER
IC361 AMP
CUE MIX
IC352 AMP
IC353 AMP
IC351, Q351 REF VOLT GEN
AUDIO PB LEVEL CH1
AUDIO PB LEVEL CH2
AUDIO PB LEVEL CH3
AUDIO PB LEVEL CH4
IC357 MULTI-PLEXER
IC358 MULTI-PLEXER
IC359 AMP
IC360 AMP
ADA VR CH1
ADA VR CH2
ADA VR CH3
ADA VR CH4
SST. 111-1
SST. 111-2
SST. 111-3
SST. 111-4


DPR. 207-2
DPR. 207-3
DPR. 207-4
DPR. 207-5
DPR. 207-1
DA BCK
DA WCK
DA CH1 DATA
DA CH2 DATA
DA SYS CK
IC203
D/A CONV.
BCK
WCK
DATA (R)
DATA (L)
SYSCK
I-OUT (R)
VCOM (R)
I-OUT (L)
VCOM (L)
DPR. 207-6
DPR. 207-7
DA CH3 DATA
DA CH4 DATA
IC204
D/A CONV.
IC202
FF
D1
D2
D3
D4
Q1
Q2
Q3
Q4
IC201
FF
RV201
CH1 DISTORTION ADJ.
RV202
CH2 DISTORTION ADJ.
RV203
CH3 DISTORTION ADJ.
RV204
CH4 DISTORTION ADJ.
IC205
IC206
IC207
IC208
I/V CONV.
RV205
CH1 LEVEL ADJ.
RV206
CH2 LEVEL ADJ.
RV207
CH3 LEVEL ADJ.
RV208
CH4 LEVEL ADJ.
L.P.F
Q201
Q202
Q203
Q204
DEEMPHASYS
Q205 ON/OFF
Q206 ON/OFF
Q207 ON/OFF
Q208 ON/OFF
IC209, SL201, 202
IC209, SL203, 204
IC210, SL205, 206
IC210, SL207, 208
HEAD ROOM 20/18/16dB SELECT
PB CH1 ADA OUT (X)
PB CH1 ADA OUT (Y)
PB CH2 ADA OUT (X)
PB CH2 ADA OUT (Y)
PB CH3 ADA OUT (X)
PB CH3 ADA OUT (Y)
PB CH4 ADA OUT (X)
PB CH4 ADA OUT (Y)
DPR. 207-8
DPR. 207-9
DPR. 207-10
DPR. 207-11
DE EMP CH1
DE EMP CH2
DE EMP CH3
DE EMP CH4
ON
OFF
S1
POWER ON
POWER SW ON
ADA-44
PB CH1 VR OUT (X)
PB CH1 VR OUT (Y)
PB CH2 VR OUT (X)
PB CH2 VR OUT (Y)
PB CH3 VR OUT (X)
PB CH3 VR OUT (Y)
PB CH4 VR OUT (X)
PB CH4 VR OUT (Y)
IC602
IC802
BUFF
S405
CH1 OUT ON
CH-1 MIX
OFF
S406
CH2 OUT ON
CH-2 MIX
S407
CH3 OUT ON
CH-3 MIX
S408
CH4 OUT ON
CH-4 MIX
S403 (1/2)
CH3 OUT MON
LINE
S403 (2/2)
CH4 OUT MON
SL601-603
SL701-703
SL801-803
SL901-903
OUTPUT LEVEL SELECT
+4/0/-3dB
IC601
IC603
IC701
IC703
IC801
IC803
IC901
IC903
OUTPUT AMP
Q601
Q602
Q701
Q702
Q801
Q802
Q901
Q902
MUTE
CH1 LINE OUT (X)
CH1 LINE OUT (Y)
CH2 LINE OUT (X)
CH2 LINE OUT (Y)
CH3 LINE OUT (X)
CH3 LINE OUT (Y)
CH4 LINE OUT (X)
CH4 LINE OUT (Y)
CN1005 CH1 AUDIO OUT
CN1006 CH2 AUDIO OUT
CN1007 CH3 AUDIO OUT
CN1008 CH4 AUDIO OUT
Q2002, 2003
MUTE SW
LINE MUTE
SST. 110-2
S401
S402
IC551
AMP
MONITOR SELECT CH1/2
CH3/4
MIX
MONITOR SELECT CUE
DA
IC552
TONE LEVEL AMP
PHONE L VR IN
PHONE R VR IN
HEADPHONE VR
VR-205
PHONE L VR OUT
PHONE R VR OUT
IC553
IC554
HEAD PHONE OUT (X)
HEAD PHONE OUT (Y)
DUS. 411-1
DUS. 411-2
VTR SAVE-MON
CN1011-20
SST. 109-4
EQ. 906-7 MB. 921-10
EQ. 906-8 MB. 921-11
CUE PB (X)
CUE PB (Y)
IC551
PB AMP
SST. 110-1
ATT ALARM TONE
RV551
ALARM TONE LEVEL
TP551
ALARM TONE LEVEL
VPR. 201-7 CC. 451-1
RFU VIDEO (X)
IC552
Q551
CN1009
RFU VIDEO OUT
RFU AUDIO OUT
RFU +5V
Q1001, 1002
RFU+5V REG
+5V-2
SST. 110-3
PHONE MUTE
Q2004, Q2005
H.POWER ON MUTE
DUS. 411-4
+5V-4: IC1004
+5V-4
REG +5V
POWER SW ON
SST. 110-9
SST. 110-10
SST. 110-13
SST. 110-12
CP KEY LD
CP KEY CK
IC1004
S/L
CK
CK INH
QH
8-BIT SHIFT REGISTER
S404
CUE REC ON
OFF
S409
CONFI ON
ECC
OFF
S410
COLOR FRAME ON
OFF
S424
MODE PB
PB/EE
SAVE
S411
EXT DC SELECT AUTO
EXT
CP KEY DATA
SST. 110-11
DC SEL AUTO/EXT OUT
FU. 455-1
FU. 455-2
CP-260 (2/2)

IC1004

INPUT			OPERATION
SHIFT/$\overline{\text{LOAD}}$	CK	CK INH	
H	↑	L	RIGHT SHIFT
L	X	X	DATA SET
H	X	H	HOLD

AUDIO SIGNAL PROCESSING

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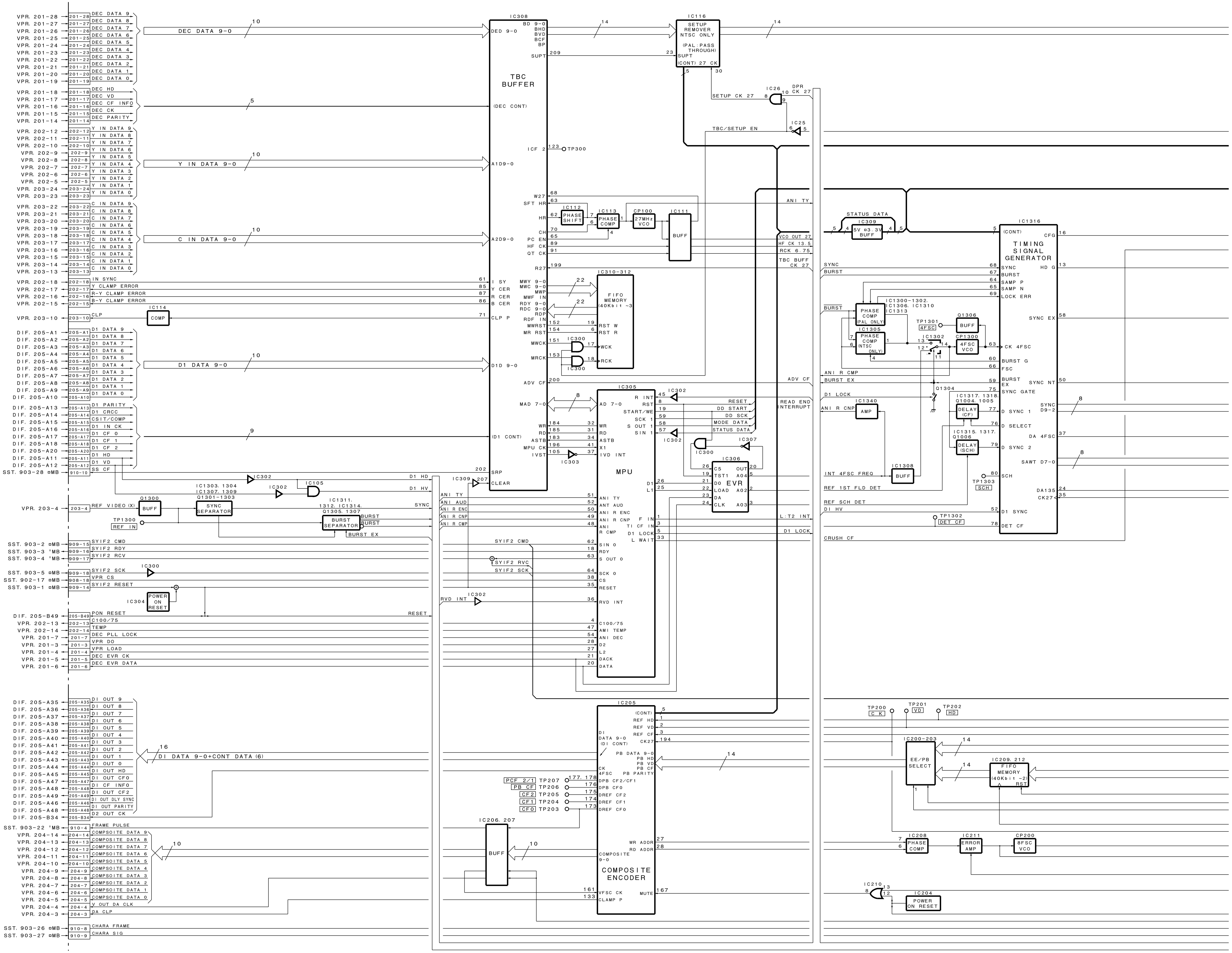
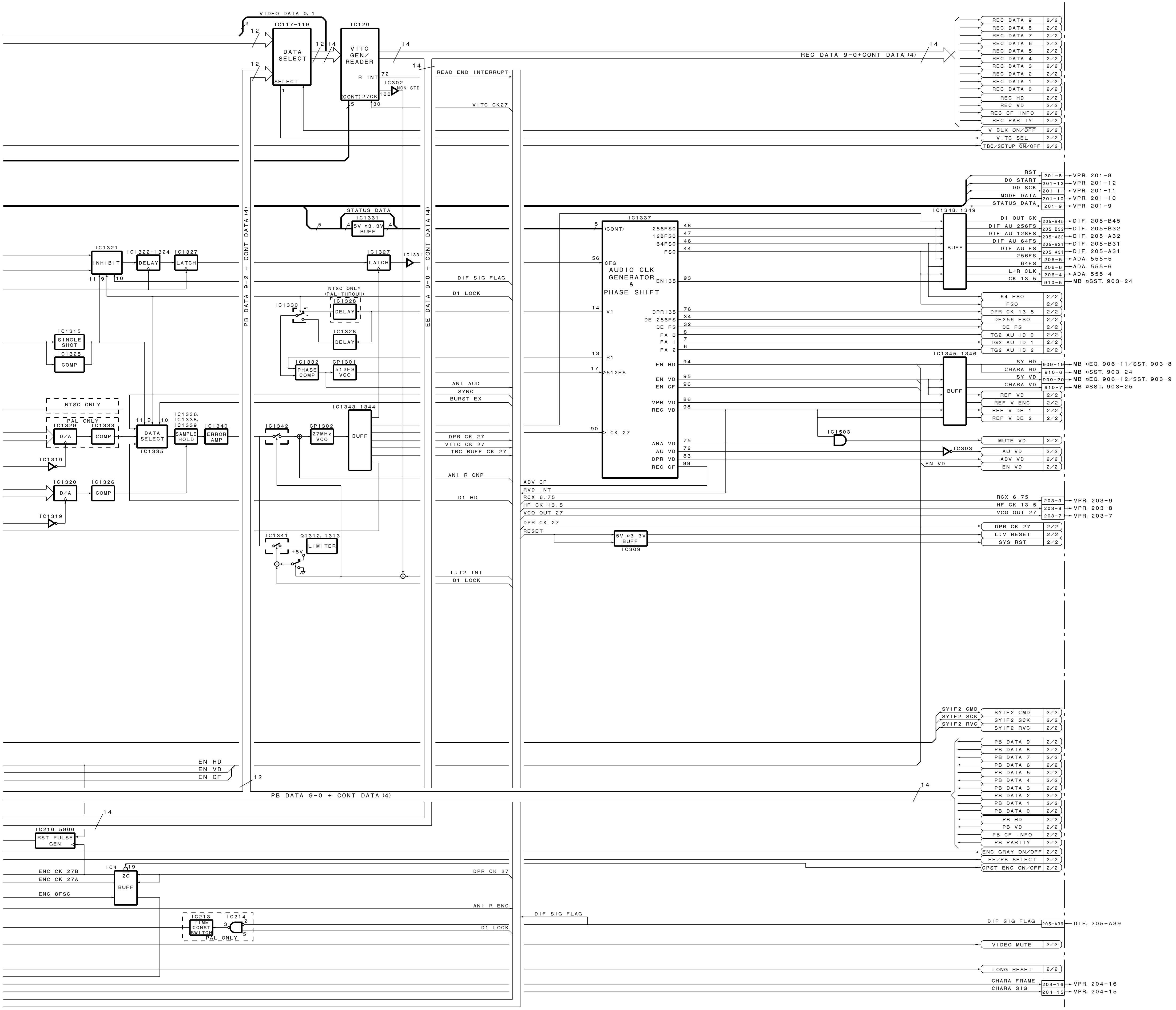
DIGITAL VIDEO PROCESSING

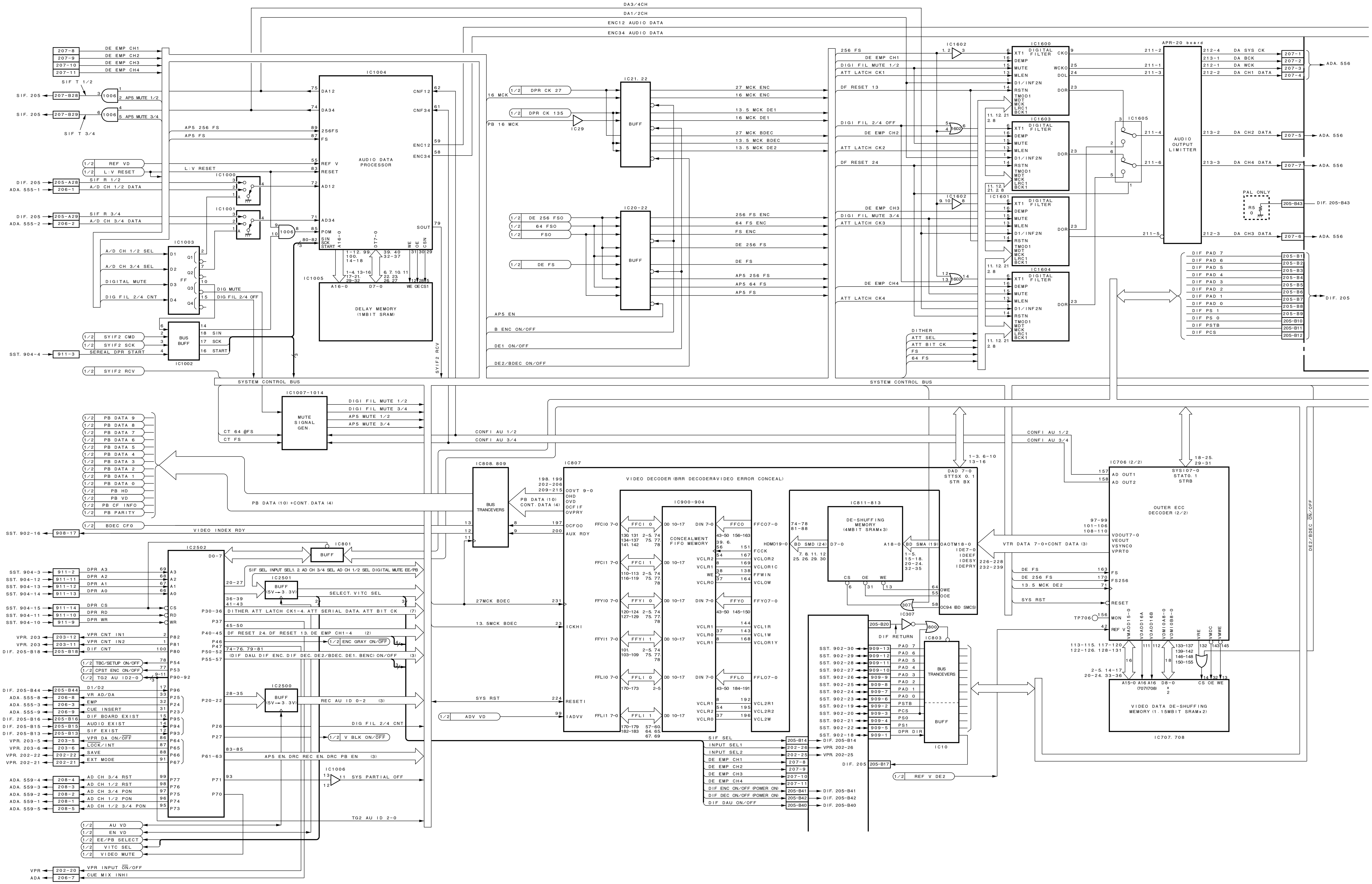
DIGITAL VIDEO PROCESSING

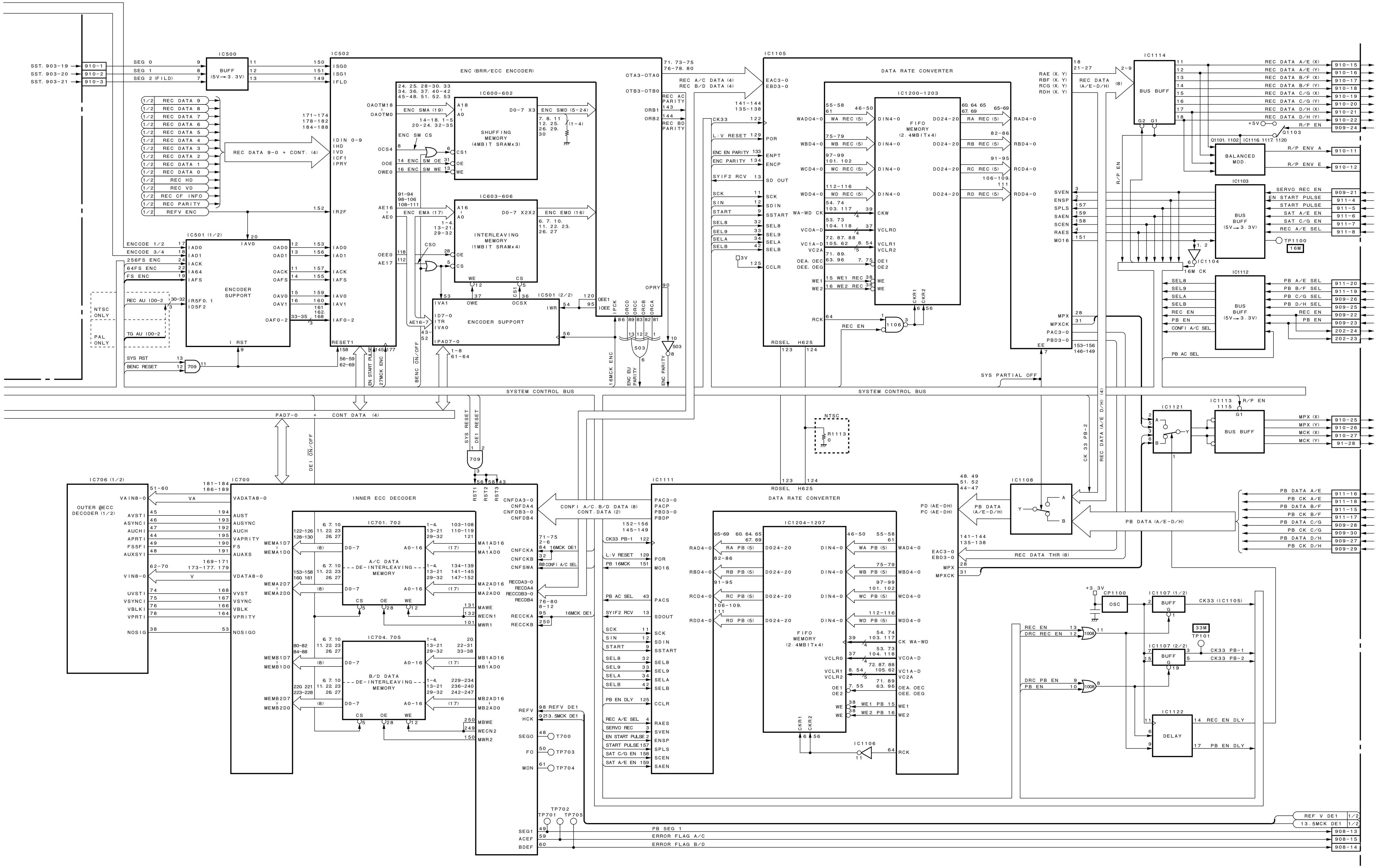

VPR. 201-28 … VPR. 201-19
DEC DATA 9 … DEC DATA 0
DEC DATA 9-0
DEC HD
DEC VD
DEC CF INFO
DEC CK
DEC PARITY
Y IN DATA 9-0
C IN DATA 9-0
IN SYNC
Y CLAMP ERROR
R-Y CLAMP ERROR
B-Y CLAMP ERROR
CLP
IC114
COMP
D1 DATA 9-0
D1 PARITY
D1 CRCC
CSIT/COMP
D1 IN CK
D1 CF 0
D1 CF 1
D1 CF 2
D1 HD
D1 VD
SS CF
IC308
TBC BUFFER
DED 9-0
(DEC CONT)
A1D9-0
A2D9-0
D1D 9-0
(D1 CONT)
SRP
CLEAR
ICF 2
TP300
W27
SFT HR
HR
CH
PC EN
HF CK
QT CK
R27
MWY 9-0
MWC 9-0
MWP
MWF IN
RDY 9-0
RDC 9-0
RDP
RDF IN
MWRST
MR RST
MWCK
MRCK
ADV CF
MAD 7-0
WR
RD
ASTB
MPU CK
IVST
IC112
PHASE SHIFT
IC113
PHASE COMP
CP100
27MHz VCO
IC111
BUFF
IC310-312
FIFO MEMORY (40Kbit ~3)
RST W
RST R
WCK
RCK
IC300
IC116
SETUP REMOVER NTSC ONLY
(PAL:PASS THROUGH)
SUPT
(CONT) 27 CK
SETUP CK 27
IC26
DPR CK 27
IC25
TBC/SETUP EN
ANI TY
VCO OUT 27
HF CK 13.5
RCK 6.75
TBC BUFF CK 27
IC305
MPU
AD 7-0
R INT
RST
START/WE
SCK 1
S OUT 1
SIN 1
IVD INT
IC302
RESET
DD START
DD SCK
MODE DATA
STATUS DATA
READ END INTERRUPT
IC307
IC306
EVR
CS
TST1
DO
LOAD
DA
CLK
OUT
A04
A02
A03
IC303
ANI TY
ANI AUD
ANI R ENC
ANI R CNP
ANI R CMP
SIN 0
RDY
S OUT 0
SCK 0
CS
RESET
RVD INT
C100/75
AMI TEMP
ANI DEC
D2
L2
DACK
DATA
F IN
TI CF IN
D1 LOCK
L WAIT
L:T2 INT
D1 LOCK
IC302
IC105
D1 HD
D1 HV
IC1303, 1304
IC1307, 1309
Q1301-1303
SYNC SEPARATOR
IC1311, 1312, IC1314, Q1305, 1307
BURST SEPARATOR
BURST
BURST EX
SYNC
VPR. 203-4
REF VIDEO (X)
Q1300
BUFF
TP1300
REF IN
SYIF2 CMD
SYIF2 RDY
SYIF2 RCV
SYIF2 SCK
VPR CS
SYIF2 RESET
IC304
POWER ON RESET
PON RESET
TEMP
DEC PLL LOCK
VPR DO
VPR LOAD
DEC EVR CK
DEC EVR DATA
RVD INT
IC309
STATUS DATA
IC309
5V ⇒ 3.3V BUFF
IC1316
TIMING SIGNAL GENERATOR
(CONT)
CFG
HD G
SYNC
BURST
SAMP P
SAMP N
LOCK ERR
SYNC EX
CK 4FSC
BURST G
FSC
BURST EX
SYNC NT
SYNC GATE
D SYNC 1
SYNC D9-2
D SELECT
DA 4FSC
D SYNC 2
SAWT D7-0
SCH
DA135
CK27
D1 SYNC
DET CF
IC1300-1302, IC1306, IC1310, IC1313
PHASE COMP (PAL ONLY)
IC1305
PHASE COMP (NTSC ONLY)
TP1301
4FSC
Q1306
BUFF
IC1302
CP1300
4FSC VCO
ANI R CMP
Q1304
D1 LOCK
IC1340
AMP
ANI R CNP
IC1317, 1318, Q1004, 1005
DELAY (CF)
IC1315, 1317, Q1006
DELAY (SCH)
INT 4FSC FREQ
IC1308
BUFF
TP1303
SCH
REF 1ST FLD DET
REF SCH DET
D1 HV
TP1302
DET CF
CRUSH CF
DIF. 205-A35 … DIF. 205-B34
DI OUT 9 … DI OUT 0
DI OUT HD
DI OUT CF0
DI CF INFO
DI OUT CF2
DI OUT DLY SYNC
DI OUT PARITY
D2 OUT CK
DI DATA 9-0+CONT DATA (6)
FRAME PULSE
COMPOSITE DATA 9 … COMPOSITE DATA 0
V OUT DA CLK
DA CLP
CHARA FRAME
CHARA SIG
IC206, 207
BUFF
IC205
COMPOSITE ENCODER
(CONT)
REF HD
REF VD
REF CF
CK27
DI DATA 9-0 (DI CONT)
PB DATA 9-0
PB HD
PB VD
PB CF
PB PARITY
CK 4FSC
DPB CF2/CF1
DPB CF0
DREF CF2
DREF CF1
DREF CF0
PCF 2/1 TP207
PB CF TP206
CF2 TP205
CF1 TP204
CF0 TP203
WR ADDR
RD ADDR
COMPOSITE 9-0
VFSC CK
CLAMP P
MUTE
TP200 CK
TP201 VD
TP202 HD
IC200-203
EE/PB SELECT
IC209, 212
FIFO MEMORY (40Kbit ~2)
RST
IC208
PHASE COMP
IC211
ERROR AMP
CP200
8FSC VCO
IC210
IC204
POWER ON RESET


VIDEO DATA 0,1
IC117-119
DATA SELECT
SELECT
IC120
VITC GEN/ READER
R INT
(CONT) 27CK
IC302
NON STD
READ END INTERRUPT
VITC CK27
REC DATA 9-0+CONT DATA (4)
REC DATA 9
REC DATA 8
REC DATA 7
REC DATA 6
REC DATA 5
REC DATA 4
REC DATA 3
REC DATA 2
REC DATA 1
REC DATA 0
REC HD
REC VD
REC CF INFO
REC PARITY
V BLK ON/OFF
VITC SEL
TBC/SETUP ON/OFF
RST
DO START
DO SCK
MODE DATA
STATUS DATA
VPR. 201-8
VPR. 201-12
VPR. 201-11
VPR. 201-10
VPR. 201-9
STATUS DATA
IC1331
5V ⇔3.3V BUFF
PB DATA 9-2 + CONT DATA (4)
EE DATA 9-0 + CONT DATA (4)
IC1321
INHIBIT
IC1322-1324
DELAY
IC1327
LATCH
IC1331
DIF SIG FLAG
D1 LOCK
NTSC ONLY (PAL THROUGH)
IC1328
DELAY
IC1330
IC1315
SINGLE SHOT
IC1325
COMP
IC1332
PHASE COMP
CP1301
512FS VCO
ANI AUD
SYNC
BURST EX
NTSC ONLY
PAL ONLY
IC1329
D/A
IC1333
COMP
IC1336, IC1338, IC1339
DATA SELECT
IC1335
SAMPLE HOLD
IC1340
ERROR AMP
IC1319
IC1320
D/A
IC1326
COMP
IC1342
CP1302
27MHz VCO
IC1343, 1344
BUFF
DPR CK 27
VITC CK 27
TBC BUFF CK 27
ANI R CNP
D1 HD
IC1341
Q1312, 1313
LIMITER
+5V
L:T2 INT
D1 LOCK
IC1337
(CONT)
CFG
AUDIO CLK GENERATOR & PHASE SHIFT
V1
R1
512FS
ICK 27
256FSO
128FSO
64FSO
FSO
EN135
DPR135
DE 256FS
DE FS
FA 0
FA 1
FA 2
EN HD
EN VD
EN CF
VPR VD
REC VD
ANA VD
AU VD
DPR VD
REC CF
IC1348, 1349
BUFF
D1 OUT CK
DIF AU 256FS
DIF AU 128FS
DIF AU 64FS
DIF AU FS
256FS
64FS
L/R CLK
CK 13.5
DIF. 205-B45
DIF. 205-B32
DIF. 205-A32
DIF. 205-B31
DIF. 205-A31
ADA. 555-5
ADA. 555-6
ADA. 555-4
MB ⇔SST. 903-24
64 FSO
FSO
DPR CK 13.5
DE256 FSO
DE FS
TG2 AU ID 0
TG2 AU ID 1
TG2 AU ID 2
IC1345, 1346
SY HD
CHARA HD
SY VD
CHARA VD
MB ⇔EQ. 906-11/SST. 903-8
MB ⇔SST. 903-24
MB ⇔EQ. 906-12/SST. 903-9
MB ⇔SST. 903-25
REF VD
REF V ENC
REF V DE 1
REF V DE 2
IC1503
MUTE VD
IC303
AU VD
ADV VD
EN VD
ADV CF
RVD INT
RCX 6.75
HF CK 13.5
VCO OUT 27
DPR CK 27
RESET
5V ⇔3.3V BUFF
IC309
VPR. 203-9
VPR. 203-8
VPR. 203-7
L:V RESET
SYS RST
SYIF2 CMD
SYIF2 SCK
SYIF2 RVC
EN HD
EN VD
EN CF
PB DATA 9-0 + CONT DATA (4)
PB DATA 9
PB DATA 8
PB DATA 7
PB DATA 6
PB DATA 5
PB DATA 4
PB DATA 3
PB DATA 2
PB DATA 1
PB DATA 0
PB HD
PB VD
PB CF INFO
PB PARITY
ENC GRAY ON/OFF
EE/PB SELECT
CPST ENC ON/OFF
IC210, 5900
RST PULSE GEN
IC4
2G BUFF
ENC CK 27B
ENC CK 27A
ENC 8FSC
DPR CK 27
ANI R ENC
IC213
TIME CONST SWITCH
IC214
PAL ONLY
D1 LOCK
DIF SIG FLAG
DIF. 205-A39
VIDEO MUTE
LONG RESET
CHARA FRAME
CHARA SIG
VPR. 204-16
VPR. 204-15

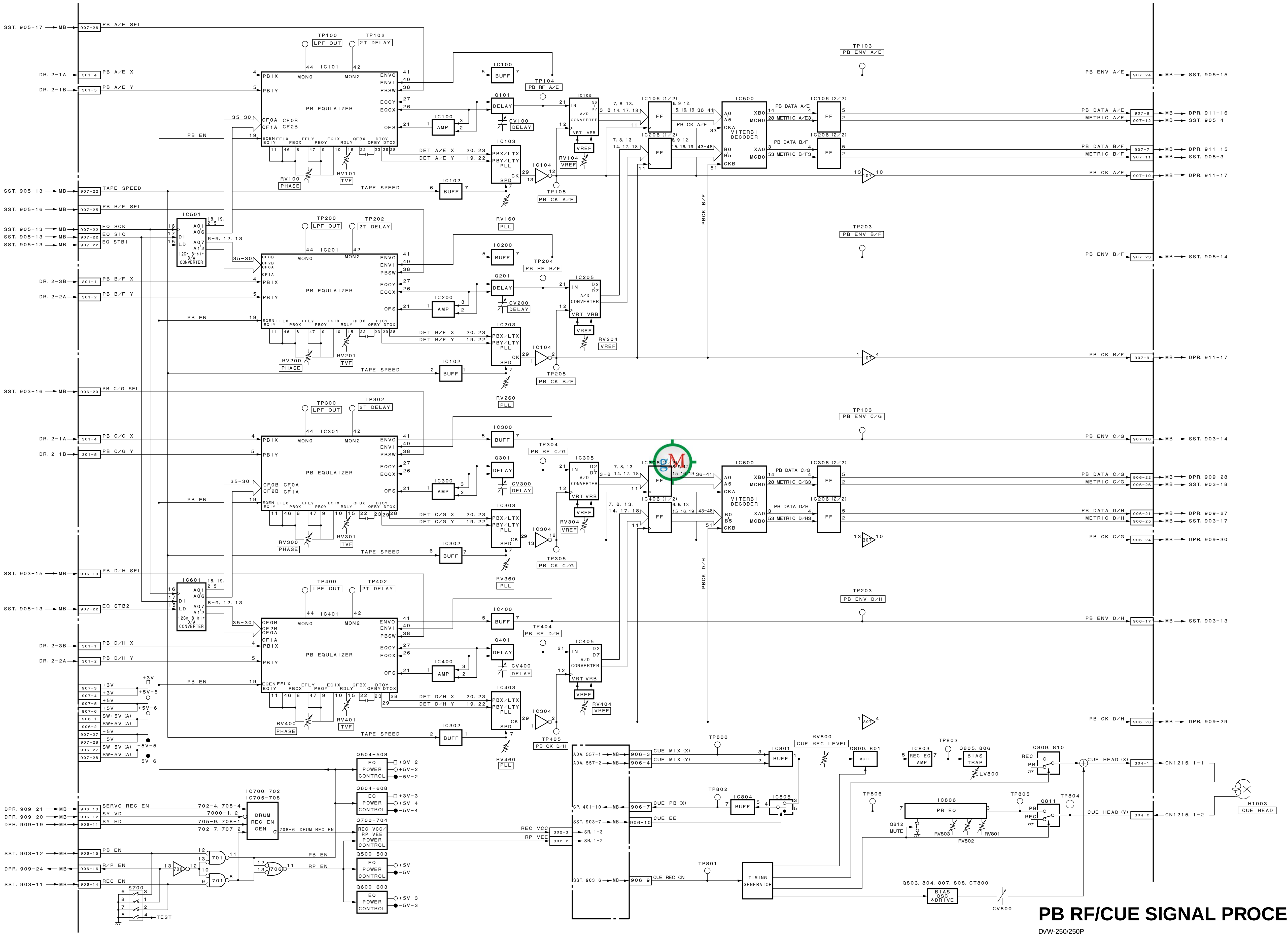
DIGITAL VIDEO PROCESSING

DVW-250/250P


DA3/4CH
DA1/2CH
ENC12 AUDIO DATA
ENC34 AUDIO DATA
IC1004
AUDIO DATA PROCESSOR
DA12
DA34
256FS
FS
REF V
RESET
AD12
AD34
POM
CNF12
CNF34
ENC12
ENC34
SOUT
DE EMP CH1
DE EMP CH2
DE EMP CH3
DE EMP CH4
SIF T 1/2
SIF T 3/4
AP5 MUTE 1/2
AP5 MUTE 3/4
AP5 256 FS
AP5 FS
REF VD
L:V RESET
SIF R 1/2
A/D CH 1/2 DATA
SIF R 3/4
A/D CH 3/4 DATA
IC1000
IC1001
IC1003
A/D CH 1/2 SEL
A/D CH 3/4 SEL
DIGITAL MUTE
DIG FIL 2/4 CNT
DIG MUTE
DIG FIL 2/4 OFF
IC1005
DELAY MEMORY (1MBIT SRAM)
SYIF2 CMD
SYIF2 SCK
SEREAL DPR START
SYIF2 RCV
BUS BUFF
IC1002
SIN
SCK
START
SYSTEM CONTROL BUS
IC21, 22
BUFF
DPR CK 27
DPR CK 135
16 MCK
PB 16 MCK
IC29
27 MCK ENC
16 MCK ENC
13.5 MCK DE1
16 MCK DE1
27 MCK BDEC
13.5 MCK BDEC
13.5 MCK DE2
IC20-22
DE 256 FSO
64 FSO
FSO
DE FS
256 FS ENC
64 FS ENC
FS ENC
DE 256 FS
DE FS
AP5 256 FS
AP5 64 FS
AP5 FS
AP5 EN
B ENC ON/OFF
DE1 ON/OFF
DE2/BDEC ON/OFF
256 FS
DE EMP CH1
DIGI FIL MUTE 1/2
ATT LATCH CK1
DF RESET 13
DIGI FIL 2/4 OFF
DE EMP CH2
ATT LATCH CK2
DF RESET 24
DE EMP CH3
DIGI FIL MUTE 3/4
ATT LATCH CK3
DE EMP CH4
ATT LATCH CK4
DITHER
ATT SEL
ATT BIT CK
FS
64 FS
IC1602
IC1600
IC1603
IC1601
IC1604
DIGITAL FILTER
XT1
DEMP
MUTE
MLEN
D1/INF2N
RSTN
TMOD1
MDT
MCK
LRC1
BCK1
CKO
WCKO
DOL
DOR
IC1605
APR-20 board
AUDIO OUTPUT LIMITTER
DA SYS CK
DA BCK
DA WCK
DA CH1 DATA
DA CH2 DATA
DA CH4 DATA
DA CH3 DATA
ADA. 556
PAL ONLY
DIF. 205-B43
DIF PAD 7
DIF PAD 6
DIF PAD 5
DIF PAD 4
DIF PAD 3
DIF PAD 2
DIF PAD 1
DIF PAD 0
DIF PS 1
DIF PS 0
DIF PSTB
DIF PCS
DIF. 205
IC1007-1014
MUTE SIGNAL GEN.
CT 64 @FS
CT FS
DIGI FIL MUTE 1/2
DIGI FIL MUTE 3/4
AP5 MUTE 1/2
AP5 MUTE 3/4
CONFI AU 1/2
CONFI AU 3/4
PB DATA 9
PB DATA 8
PB DATA 7
PB DATA 6
PB DATA 5
PB DATA 4
PB DATA 3
PB DATA 2
PB DATA 1
PB DATA 0
PB HD
PB VD
PB CF INFO
PB PARITY
BDEC CF0
PB DATA (10) +CONT. DATA (4)
VIDEO INDEX RDY
IC808, 809
BUS TRANCEVERS
IC807
VIDEO DECODER (BRR DECODER&VIDEO ERROR CONCEAL)
ODVT 9-0
OHD
OVD
OCF1F
OVPRY
OCFOO
AUX RDY
ICKHI
RESET
IADVV
IC900-904
CONCEALMENT FIFO MEMORY
IC811-813
DE-SHUFFING MEMORY (4MBIT SRAMx3)
DAD 7-0
STTSX 0, 1
STR BX
VTR DATA 7-0+CONT DATA (3)
IC706 (2/2)
OUTER ECC DECODER (2/2)
AD OUT1
AD OUT2
VDOUT7-0
VEOUT
VSYNCO
VPRTO
FS256
SYS107-0
STAT0, 1
STRB
DE FS
DE 256 FS
13.5 MCK DE2
SYS RST
TP706
MON
REF V
IC707, 708
VIDEO DATA DE-SHUFFING MEMORY (1.15MBIT SRAMx2)
IC2502
DPR A3
DPR A2
DPR A1
DPR A0
DPR CS
DPR RD
DPR WR
VPR CNT IN1
VPR CNT IN2
DIF CNT
TBC/SETUP ON/OFF
CPST ENC ON/OFF
TG2 AU ID2-0
D1/D2
VR AD/DA
EMP
CUE INSERT
DIF BOARD EXIST
AUDIO EXIST
SIF EXIST
VPR DA ON/OFF
LOCK/INT
SAVE
EXT MODE
AD CH 3/4 RST
AD CH 1/2 RST
AD CH 3/4 PON
AD CH 1/2 PON
AD CH 1/2 3/4 PON
IC2501
IC2500
BUFF (5V→3.3V)
SIF SEL INPUT SEL1, 2 AD CH 3/4 SEL AD CH 1/2 SEL DIGITAL MUTE EE/PB
SELECT VITC SEL
DITHER ATT LATCH CK1-4 ATT SERIAL DATA ATT BIT CK (7)
DF RESET 24 DF RESET 13 DE EMP CH1-4 (2)
ENC GRAY ON/OFF
(DIF DAU DIF ENC DIF DEC DE2/BDEC DE1 BENC) ON/OFF (3)
REC AU ID 0-2 (3)
DIG FIL 2/4 CNT
V BLK ON/OFF
AP5 EN DRC REC EN DRC PB EN (3)
IC1006
SYS PARTIAL OFF
TG2 AU ID 2-0
AU VD
EN VD
EE/PB SELECT
VITC SEL
VIDEO MUTE
VPR INPUT ON/OFF
CUE MIX INHI
27MCK BDEC
13.5MCK BDEC
SYS RST
ADV VD
SIF SEL
INPUT SEL1
INPUT SEL2
DIF ENC ON/OFF (POWER ON)
DIF DEC ON/OFF (POWER ON)
DIF DAU ON/OFF
IC307
IC803
DIF RETURN
PAD 7
PAD 6
PAD 5
PAD 4
PAD 3
PAD 2
PAD 1
PAD 0
PSTB
PCS
PS0
PS1
DPR DIR
BUS TRANCEVERS
BUFF
IC10
REF V DE2
DE2/BDEC ON/OFF
SST. 902-30
SST. 904-4
SST. 902-16
VPR. 203
DIF. 205-B18
ADA. 555-1
ADA. 555-2
SIF. 205


IC500
BUFF (5V→3.3V)
IC502
ENC (BRR/ECC ENCODER)
IC600-602
SHUFFING MEMORY (4MBIT SRAMx3)
IC603-606
INTERLEAVING MEMORY (1MBIT SRAMx4)
IC501 (1/2)
ENCODER SUPPORT
IC501 (2/2)
ENCODER SUPPORT
REC DATA 9-0 + CONT. (4)
SST. 903-19
SST. 903-20
SST. 903-21
SEG 0
SEG 1
SEG 2 (FILD)
NTSC ONLY
PAL ONLY
SYSTEM CONTROL BUS
PAD7-0 + CONT DATA (4)
IC1105
DATA RATE CONVERTER
IC1200-1203
FIFO MEMORY (2.4MBITx4)
IC1114
BUS BUFF
BALANCED MOD.
IC1103
BUS BUFF (5V→3.3V)
IC1112
BUS BUFF (5V→3.3V)
IC1121
IC1113
BUS BUFF
IC706 (1/2)
OUTER @ECC DECODER (1/2)
IC700
INNER ECC DECODER
IC701, 702
A/C DATA DE-INTERLEAVING MEMORY
IC704, 705
B/D DATA DE-INTERLEAVING MEMORY
IC1111
DATA RATE CONVERTER
IC1204-1207
FIFO MEMORY (2.4MBITx4)
IC1108
PB DATA (A/E-D/H)
REC DATA THR (8)
CP1100
OSC
IC1107 (1/2)
IC1107 (2/2)
IC1122
DELAY
TP700
TP703
TP704
TP701
TP702
TP705
PB SEG 1
ERROR FLAG A/C
ERROR FLAG B/D
REF V DE1
13.5MCK DE1
908-13
908-15
908-14
DR. 1-8A
DR. 1-9B
DR. 1-2A
DR. 1-3B
DR. 1-4B
DR. 1-4A
DR. 1-5A
DR. 1-6B
EQ. 906-16
SST. 904-9
SST. 903-10
SST. 904-5
SST. 904-6
SST. 904-8
SST. 904-7
SST. 905-17
SST. 905-16
SST. 903-16
SST. 903-15
SST. 903-11
SST. 903-12
VPR. 202-24
VPR. 202-23
DR. 1-7B
DR. 1-7A
DR. 1-1B
DR. 1-1A
EQ. 907-8
EQ. 907-10
EQ. 907-7
EQ. 907-9
EQ. 906-22
EQ. 906-24
EQ. 906-21
EQ. 906-23

DIGITAL DATA PROCESSING


PB EQUALIZER
IC101
IC201
IC301
IC401
IC100 BUFF
IC200 BUFF
IC300 BUFF
IC400 BUFF
Q101 DELAY
Q201 DELAY
Q301 DELAY
Q401 DELAY
IC105 A/D CONVERTER
IC205 A/D CONVERTER
IC305 A/D CONVERTER
IC405 A/D CONVERTER
IC103 PBX/LTX PBY/LTY PLL
IC203
IC303
IC403
IC500 VITERBI DECODER
IC600 VITERBI DECODER
IC106 (1/2) FF
IC106 (2/2) FF
IC206 (1/2) FF
IC206 (2/2) FF
IC306 (2/2) FF
IC406 (1/2) FF
IC501 12Ch 8-bit D/A CONVERTER
IC601 12Ch 8-bit D/A CONVERTER
TP100 LPF OUT
TP102 2T DELAY
TP103 PB ENV A/E
TP104 PB RF A/E
TP105 PB CK A/E
TP203 PB ENV B/F
TP204 PB RF B/F
TP205 PB CK B/F
TP304 PB RF C/G
TP305 PB CK C/G
TP404 PB RF D/H
TP405 PB CK D/H
RV100 PHASE
RV101 TVF
RV160 PLL
RV104 VREF
PB ENV A/E
PB DATA A/E
METRIC A/E
PB DATA B/F
METRIC B/F
PB CK A/E
PB ENV B/F
PB CK B/F
PB ENV C/G
PB DATA C/G
METRIC C/G
PB DATA D/H
METRIC D/H
PB CK C/G
PB ENV D/H
PB CK D/H
TAPE SPEED
PB EN
Q504-508 EQ POWER CONTROL
Q604-608 EQ POWER CONTROL
Q700-704 REC VCC/RP VEE POWER CONTROL
Q500-503 EQ POWER CONTROL
Q600-603 EQ POWER CONTROL
IC700, 702 IC705-708 DRUM REC EN GEN.
S700 TEST
CUE MIX (X)
CUE MIX (Y)
CUE PB (X)
CUE EE
CUE REC ON
IC801 BUFF
RV800 CUE REC LEVEL
Q800, 801 MUTE
IC803 REC EQ AMP
Q805, 806 BIAS TRAP
Q809, 810
IC804 BUFF
IC805
IC806 PB EQ
Q811
Q812 MUTE
TIMING GENERATOR
Q803, 804, 807, 808, CT800 BIAS OSC &DRIVE
CV800
CUE HEAD (X)
CUE HEAD (Y)
CN1215, 1-1
CN1215, 1-2
H1003 CUE HEAD

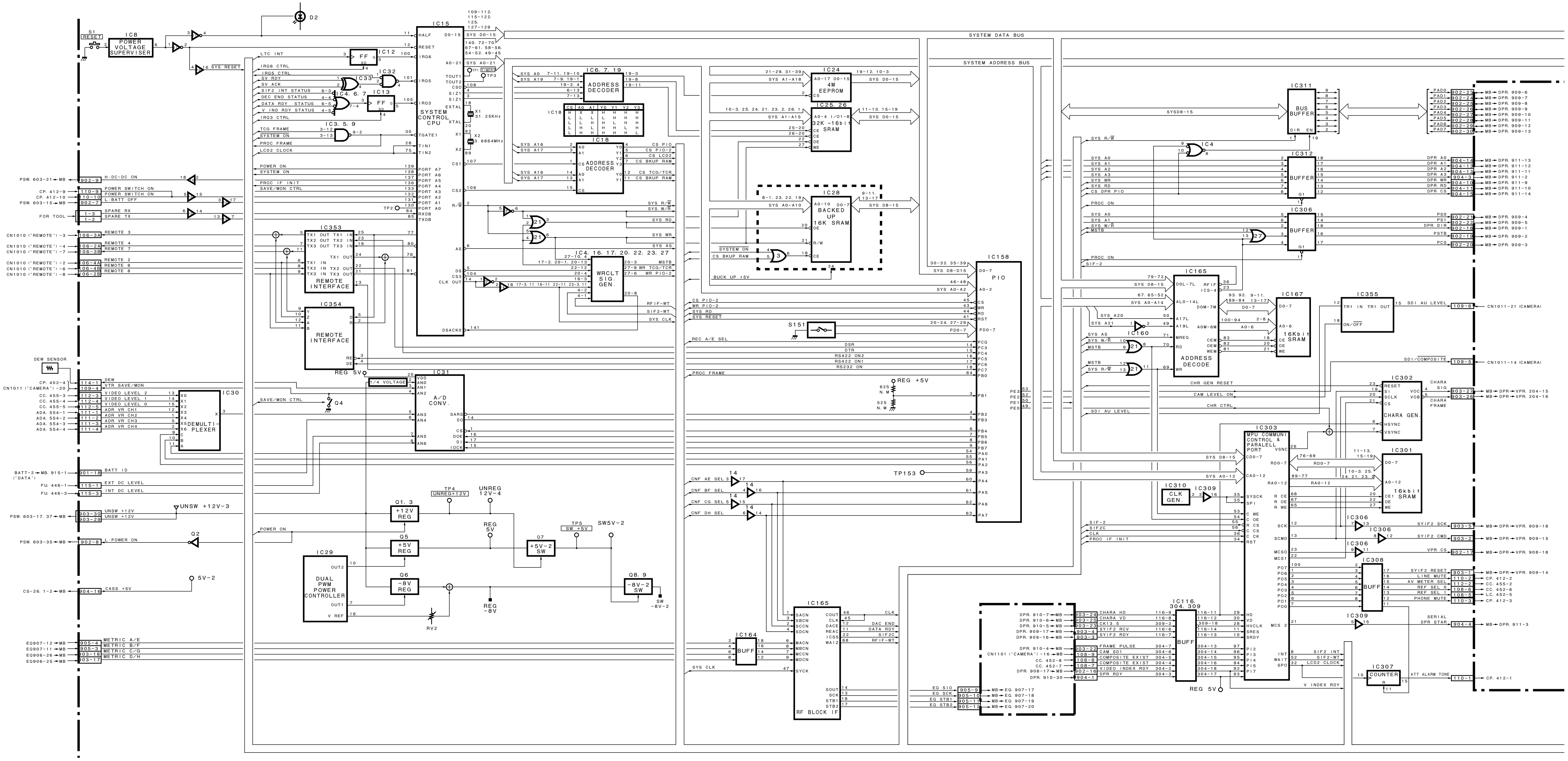
PB RF/CUE SIGNAL PROCESSING

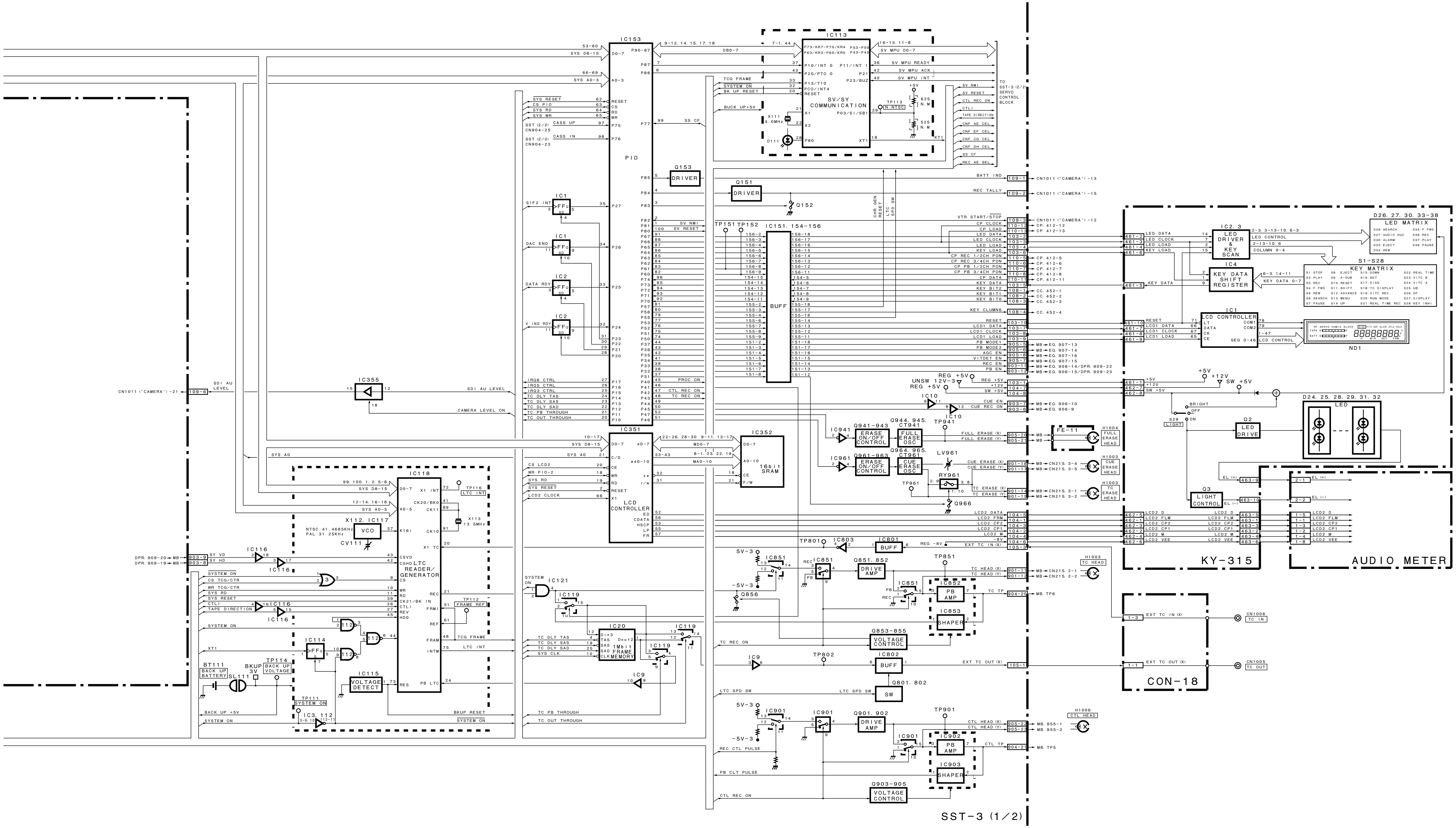
DVW-250/250P

1-15

SYSTEM CONTROL BLOCK

SYSTEM CONTROL BLOCK


IC8 POWER VOLTAGE SUPERVISER
S1 RESET
D2
IC15 SYSTEM CONTROL CPU
SYSTEM DATA BUS
SYSTEM ADDRESS BUS
IC12 FF
IC13 FF
IC32
IC33
IC3, 5, 9
IC4, 6, 7
IC6, 7, 19 ADDRESS DECODER
IC18 ADDRESS DECODER
IC4, 16, 17, 20, 22, 23, 27 WRCLT SIG. GEN.
IC24 4M EEPROM
IC25, 26 32K ×16bit SRAM
IC28 BACKED UP 16K SRAM
IC158 PIO
IC165 ADDRESS DECODE
IC160
IC167 16kbit SRAM
IC311 BUS BUFFER
IC312 BUFFER
IC306 BUFFER
IC355
IC302 CHARA GEN
IC303 MPU COMMUNT CONTROL & PARALELL PORT
IC301 16kbit SRAM
IC310 CLK GEN.
IC309
IC308 BUFF
IC307 COUNTER
IC116, 304, 309 BUFF
IC353 REMOTE INTERFACE
IC354 REMOTE INTERFACE
IC30 DEMULTI-PLEXER
IC31 A/D CONV.
IC29 DUAL PWM POWER CONTROLLER
Q1, 3 +12V REG
Q5 +5V REG
Q6 -8V REG
Q7 +5V-2 SW
Q8, 9 -8V-2 SW
Q2
Q4
UNSW +12V-3
5V-2
SW5V-2
UNREG 12V-4
RV2
IC165 RF BLOCK IF
IC164 BUFF
S151
TP153
DEW SENSOR
X1 31.25KHz
X2 3.6864MHz
REG 5V

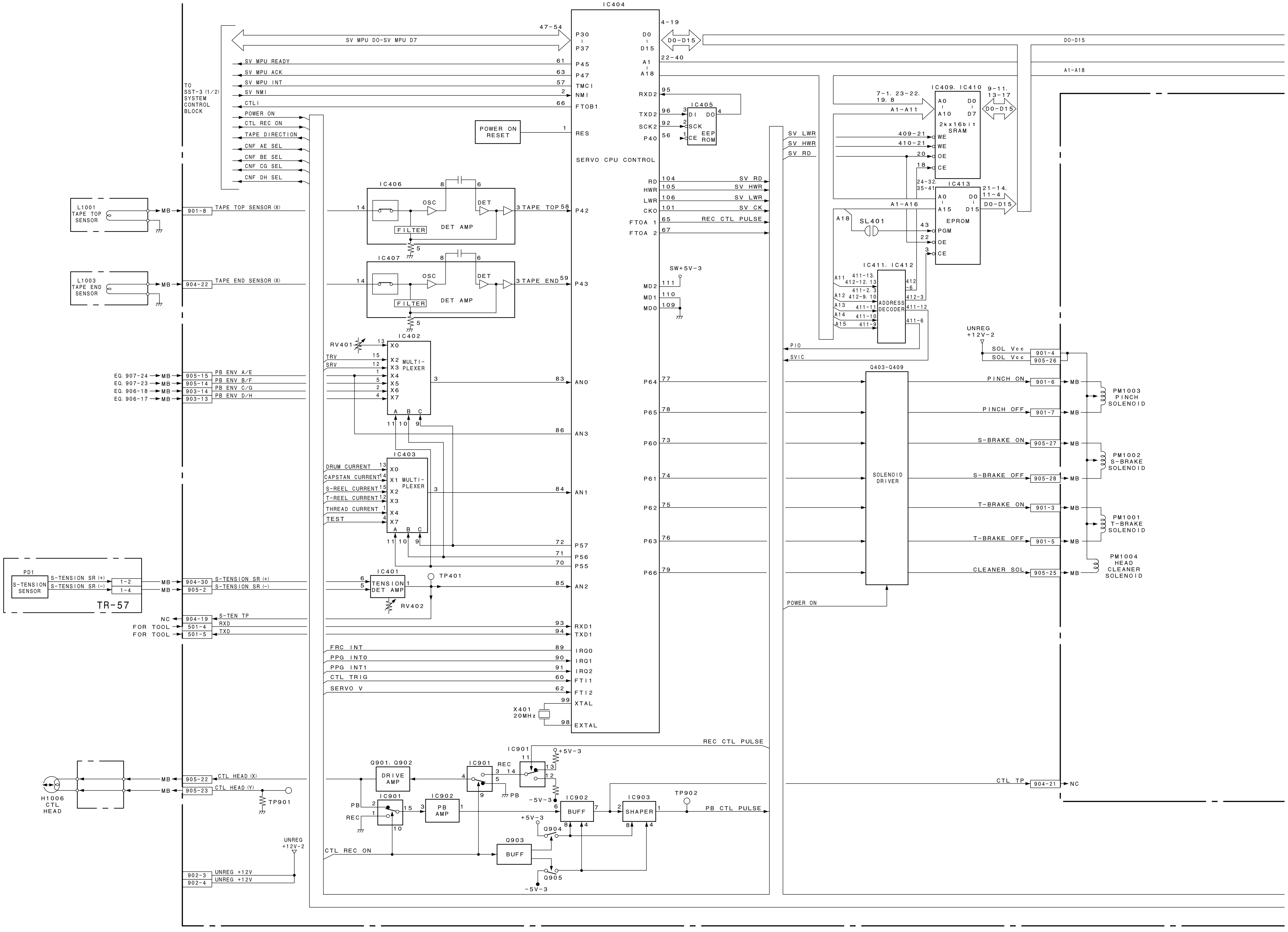

IC153
P10
IC113
SV/SY COMMUNICATION
TO SST-3 (2/2) SERVO CONTROL BLOCK
Q153 DRIVER
Q151 DRIVER
Q152
IC151, 154-156 BUFF
IC1 FF
IC2 FF
IC355
SDI AU LEVEL
CAMERA LEVEL ON
CN1011 ("CAMERA")-21
IC351 LCD CONTROLLER
IC352 16bit SRAM
IC118 LTC READER/GENERATOR
X112, IC117 VCO
CV111
NTSC:41.4685kHz PAL:31.25kHz
X113 13.5MHz
IC116
IC121
IC119
IC20 1Mbit FRAME MEMORY
IC114 FF
IC115 VOLTAGE DETECT
BT111 BACK UP BATTERY
SL111
BKUP 3V
TP114 BACK UP VOLTAGE
TP111 SYSTEM ON
IC3, 112
IC9
IC941 Q941-943 ERASE ON/OFF CONTROL
Q944, 945, CT941 FULL ERASE OSC
IC961 Q961-963 ERASE ON/OFF CONTROL
Q964, 965, CT961 CUE ERASE OSC
LV961
RY961
Q966
IC10
IC803
IC801 BUFF
IC851
Q851, 852 DRIVE AMP
IC852 PB AMP
IC853 SHAPER
Q853-855 VOLTAGE CONTROL
Q856
IC802 BUFF
Q801, 802 SW
IC901
Q901, 902 DRIVE AMP
IC902 PB AMP
IC903 SHAPER
Q903-905 VOLTAGE CONTROL
SST-3 (1/2)
FE-11
H1004 FULL ERASE HEAD
H1003 CUE ERASE HEAD
H1003 TC ERASE HEAD
H1003 TC HEAD
H1006 CTL HEAD
IC2, 3 LED DRIVER & KEY SCAN
IC4 KEY DATA SHIFT REGISTER
IC1 LCD CONTROLLER
D26, 27, 30, 33-38 LED MATRIX
S1-S28 KEY MATRIX
ND1
S29 LIGHT
Q2 LED DRIVE
Q3 LIGHT CONTROL
D24, 25, 28, 29, 31, 32 LED
KY-315
AUDIO METER
CON-18
CN1006 TC IN
CN1005 TC OUT
EXT TC IN
EXT TC OUT

SYSTEM CONTROL BLOCK

DVW-250/250P

SERVO CONTROL BLOCK

SERVO CONTROL BLOCK


IC404
SERVO CPU CONTROL
SV MPU D0-SV MPU D7
SV MPU READY
SV MPU ACK
SV MPU INT
SV NMI
CTLI
POWER ON
CTL REC ON
TAPE DIRECTION
CNF AE SEL
CNF BE SEL
CNF CG SEL
CNF DH SEL
TO SST-3 (1/2) SYSTEM CONTROL BLOCK
POWER ON RESET
D0-D15
A1-A18
IC405 EEP ROM
IC409, IC410 2kx16bit SRAM
IC413 EPROM
SL401
IC411, IC412 ADDRESS DECODER
SV LWR
SV HWR
SV RD
SV CK
REC CTL PULSE
SW+5V-3
L1001 TAPE TOP SENSOR
L1003 TAPE END SENSOR
TAPE TOP SENSOR (X)
TAPE END SENSOR (X)
IC406
IC407
OSC
DET
FILTER
DET AMP
TAPE TOP
TAPE END
RV401
IC402 MULTI-PLEXER
TRV
SRV
EQ. 907-24
EQ. 907-23
EQ. 906-18
EQ. 906-17
PB ENV A/E
PB ENV B/F
PB ENV C/G
PB ENV D/H
IC403 MULTI-PLEXER
DRUM CURRENT
CAPSTAN CURRENT
S-REEL CURRENT
T-REEL CURRENT
THREAD CURRENT
TEST
PD1
S-TENSION SENSOR
S-TENSION SR (+)
S-TENSION SR (−)
TR-57
IC401 TENSION DET AMP
TP401
RV402
NC
FOR TOOL
S-TEN TP
RXD
TXD
FRC INT
PPG INT0
PPG INT1
CTL TRIG
SERVO V
X401 20MHz
UNREG +12V-2
SOL Vcc
Q403-Q409 SOLENOID DRIVER
PINCH ON
PINCH OFF
S-BRAKE ON
S-BRAKE OFF
T-BRAKE ON
T-BRAKE OFF
CLEANER SOL
PM1003 PINCH SOLENOID
PM1002 S-BRAKE SOLENOID
PM1001 T-BRAKE SOLENOID
PM1004 HEAD CLEANER SOLENOID
PIO
SVIC
POWER ON
H1006 CTL HEAD
CTL HEAD (X)
CTL HEAD (Y)
TP901
Q901, Q902 DRIVE AMP
IC901
IC902 PB AMP
IC902 BUFF
IC903 SHAPER
TP902
PB CTL PULSE
CTL TP
Q903 BUFF
Q904
Q905
+5V-3
−5V-3
REC
PB
CTL REC ON
UNREG +12V
MB

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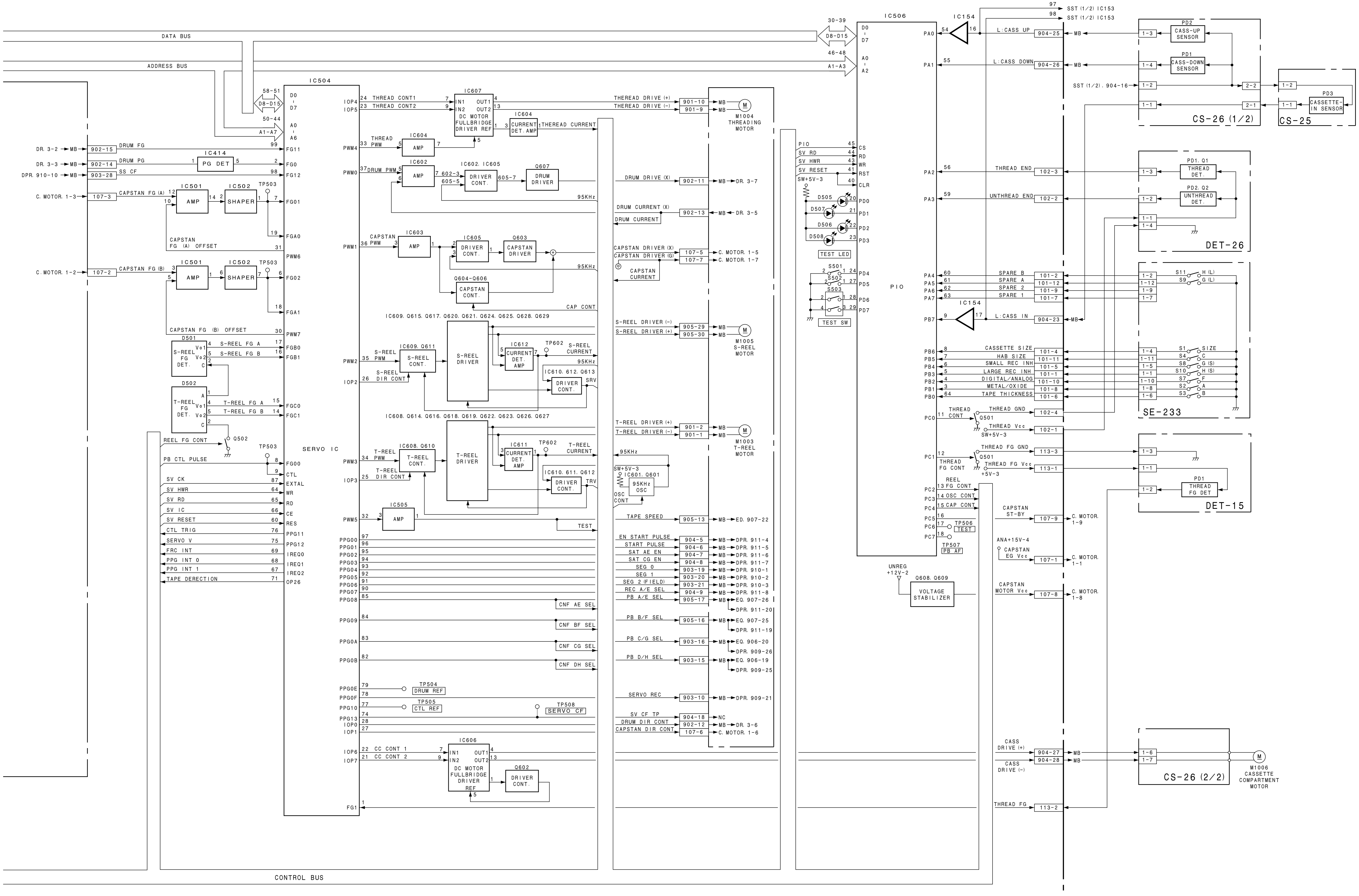
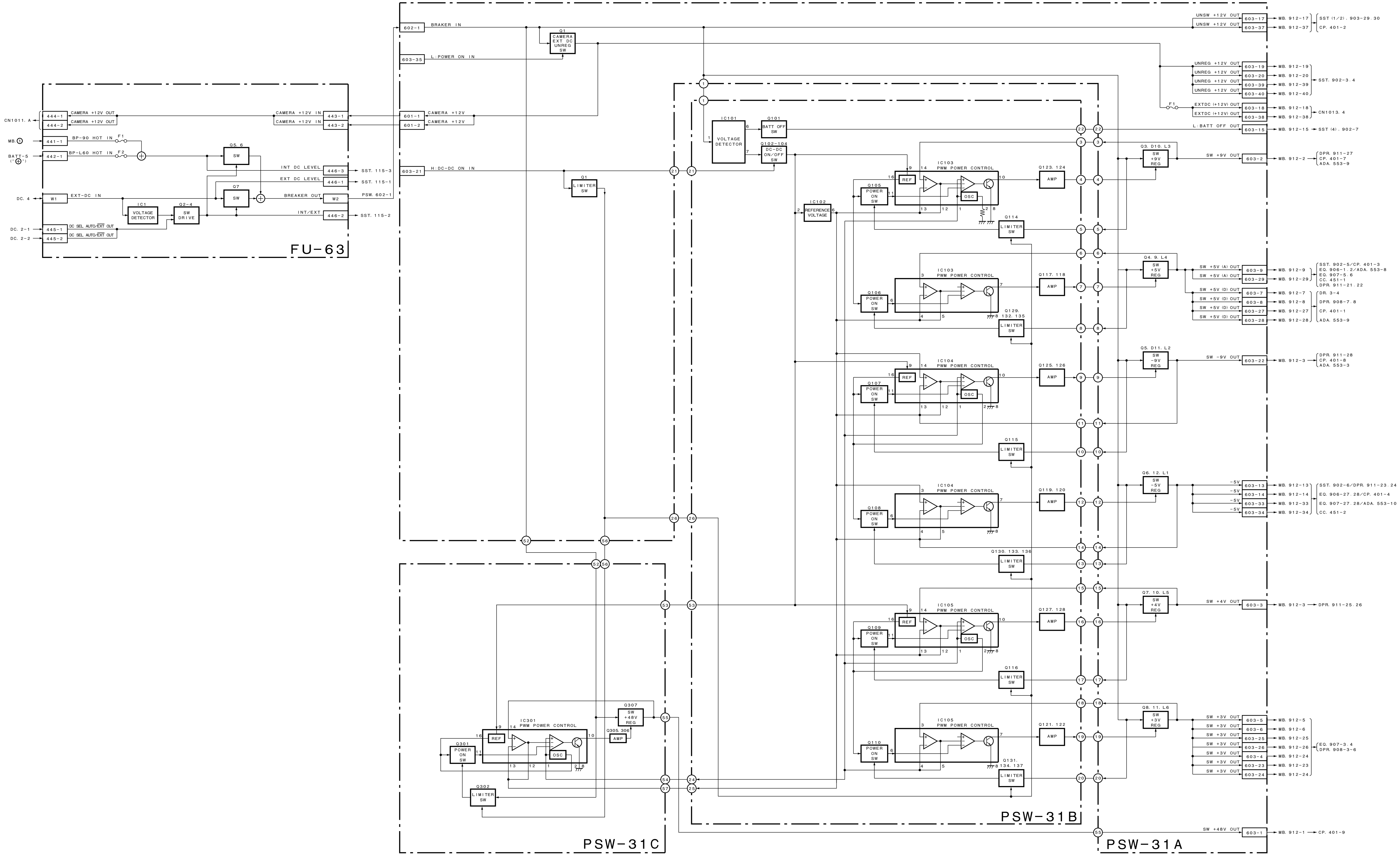

DATA BUS
ADDRESS BUS
CONTROL BUS
IC504
SERVO IC
IC506
PIO
IC154
IC607
DC MOTOR FULLBRIDGE DRIVER
IC604
CURRENT DET AMP
M1004 THREADING MOTOR
IC414
PG DET
IC501
AMP
IC502
SHAPER
TP503
IC602, IC605
DRIVER CONT.
Q607
DRUM DRIVER
IC603
IC605
Q603
CAPSTAN DRIVER
Q604-Q606
CAPSTAN CONT.
IC609, Q615, Q617, Q620, Q621, Q624, Q625, Q628, Q629
IC609, Q611
S-REEL CONT.
S-REEL DRIVER
IC612
TP602
IC610, 612, Q613
M1005 S-REEL MOTOR
IC608, Q614, Q616, Q618, Q619, Q622, Q623, Q626, Q627
IC608, Q610
T-REEL CONT.
T-REEL DRIVER
IC611
IC610, 611, Q612
M1003 T-REEL MOTOR
IC601, Q601
95kHz OSC
IC505
AMP
TP504 DRUM REF
TP505 CTL REF
TP508 SERVO CF
IC606
Q602
D501
S-REEL FG DET.
D502
T-REEL FG DET.
Q502
REEL FG CONT
D505
D506
D507
D508
TEST LED
S501
S502
S503
TEST SW
Q501
Q608, Q609
VOLTAGE STABILIZER
TP506 TEST
TP507 PB AF
PD2 CASS-UP SENSOR
PD1 CASS-DOWN SENSOR
PD3 CASSETTE-IN SENSOR
CS-26 (1/2)
CS-25
PD1, Q1 THREAD DET.
PD2, Q2 UNTHREAD DET.
DET-26
SE-233
DET-15
PD1 THREAD FG DET
CS-26 (2/2)
M1006 CASSETTE COMPARTMENT MOTOR
DRUM FG
DRUM PG
SS CF
CAPSTAN FG (A)
CAPSTAN FG (B)
CAPSTAN FG (A) OFFSET
CAPSTAN FG (B) OFFSET
S-REEL FG A
S-REEL FG B
T-REEL FG A
T-REEL FG B
PB CTL PULSE
SV CK
SV HWR
SV RD
SV IC
SV RESET
CTL TRIG
SERVO V
FRC INT
PPG INT 0
PPG INT 1
TAPE DERECTION
THREAD CONT1
THREAD CONT2
THREAD PWM
DRUM PWM
CAPSTAN PWM
S-REEL PWM
S-REEL DIR CONT
T-REEL PWM
T-REEL DIR CONT
CC CONT 1
CC CONT 2
THREAD DRIVE (+)
THREAD DRIVE (−)
THEREAD CURRENT
DRUM DRIVE (X)
DRUM CURRENT (X)
DRUM CURRENT
CAPSTAN DRIVER (X)
CAPSTAN DRIVER (G)
CAPSTAN CURRENT
CAP CONT
S-REEL DRIVER (−)
S-REEL DRIVER (+)
S-REEL CURRENT
T-REEL DRIVER (+)
T-REEL DRIVER (−)
T-REEL CURRENT
95KHz
TEST
TAPE SPEED
EN START PULSE
START PULSE
SAT AE EN
SAT CG EN
SEG 0
SEG 1
SEG 2 (FIELD)
REC A/E SEL
PB A/E SEL
CNF AE SEL
PB B/F SEL
CNF BF SEL
PB C/G SEL
CNF CG SEL
PB D/H SEL
CNF DH SEL
SERVO REC
SV CF TP
DRUM DIR CONT
CAPSTAN DIR CONT
SW+5V-3
L:CASS UP
L:CASS DOWN
SST (1/2) IC153
SST (1/2), 904-16
THREAD END
UNTHREAD END
SPARE B
SPARE A
SPARE 2
SPARE 1
L:CASS IN
CASSETTE SIZE
HAB SIZE
SMALL REC INH
LARGE REC INH
DIGITAL/ANALOG
METAL/OXIDE
TAPE THICKNESS
THREAD CONT
THREAD GND
THREAD Vcc
THREAD FG CONT
THREAD FG GND
THREAD FG Vcc
REEL FG CONT
OSC CONT
CAP CONT
CAPSTAN ST-BY
ANA+15V-4
CAPSTAN EG Vcc
UNREG +12V-2
CAPSTAN MOTOR Vcc
CASS DRIVE (+)
CASS DRIVE (−)
THREAD FG
C. MOTOR 1-9
C. MOTOR 1-1
C. MOTOR 1-8
DR. 3-2
DR. 3-3
DPR. 910-10
C. MOTOR. 1-3
C. MOTOR. 1-2
DR. 3-7
DR. 3-5
C. MOTOR. 1-5
C. MOTOR. 1-7
ED. 907-22
DR. 3-6
C. MOTOR. 1-6
NC
MB

SERVO CONTROL BLOCK

DVW-250/250P


FU-63
PSW-31A
PSW-31B
PSW-31C
CN1011. A
MB. ①
BATT-5
DC. 4
DC. 2-1
DC. 2-2
444-1 CAMERA +12V OUT
444-2 CAMERA +12V OUT
441-1 BP-90 HOT IN F1
442-1 BP-L60 HOT IN F2
W1 EXT-DC IN
445-1 DC SEL AUTO/EXT OUT
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OSC
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DVW-250/250P

Section 2
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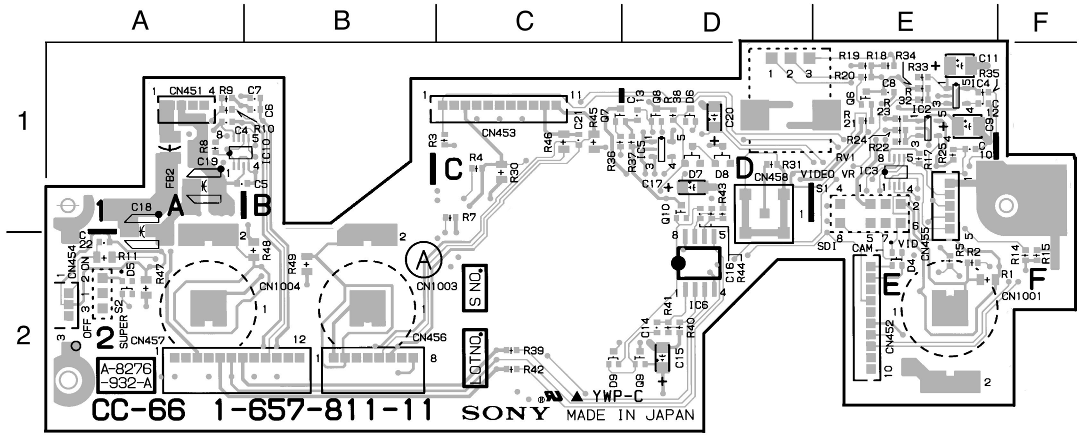
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C
D
E
F
1
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CN453
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CN455
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CN457
CN458
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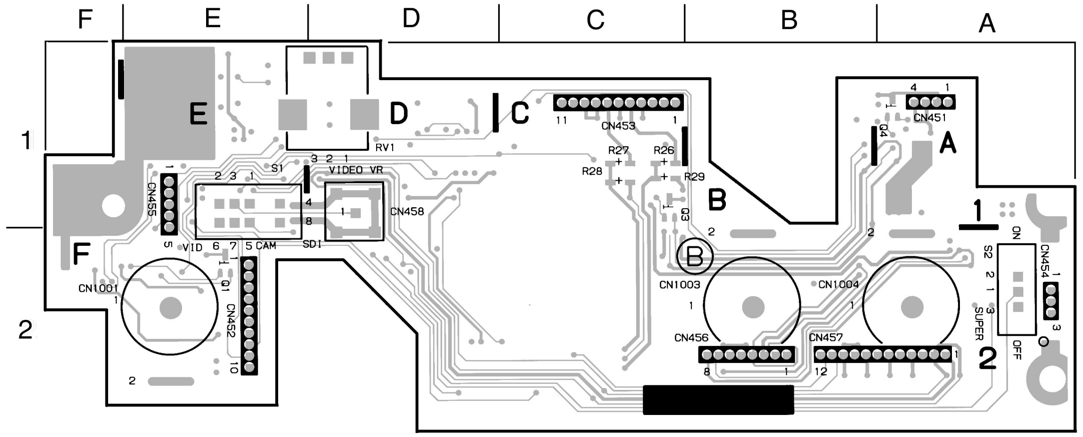
CN1003
CN1004
IC1
IC2
IC3
IC6
VIDEO VR
RV1
S1
SD1
CAM
VID
SUPER
OFF
ON
S NO.
LOT NO.
A-8276-932-A
CC-66 1-657-811-11
SONY
YWP-C
MADE IN JAPAN

CC-66 - A SIDE -
1-657-811-11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CN453
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CN456
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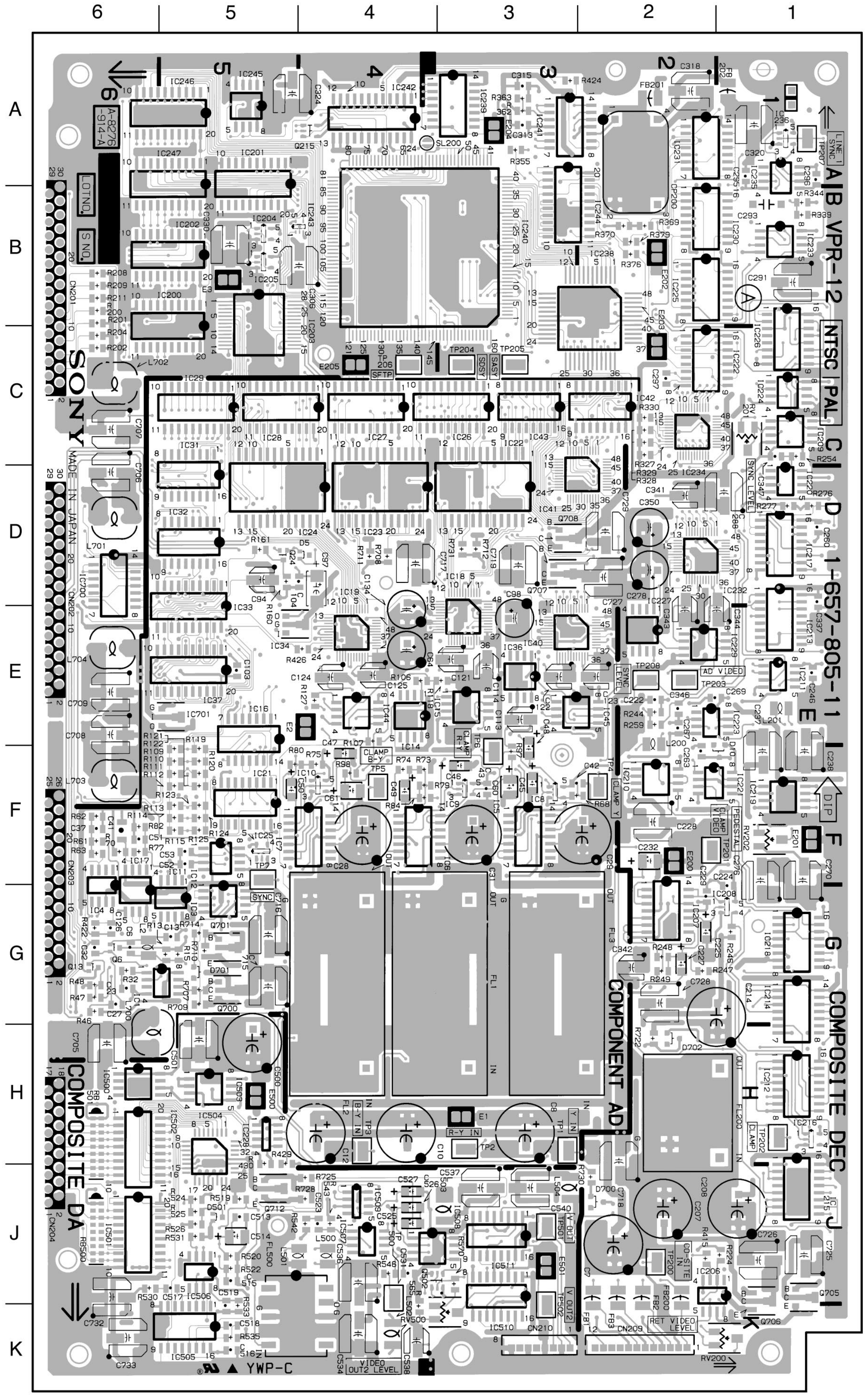
CN1001
CN1003
CN1004
R26
R27
R28
R29
RV1
S1
S2
SD1
VIDEO VR
VID
CAM
SUPER
OFF
ON

CC-66 - B SIDE -
1-657-811-11


6
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A
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G
H
J
K
SONY
MADE IN JAPAN
A/B VPR-12
NTSC PAL
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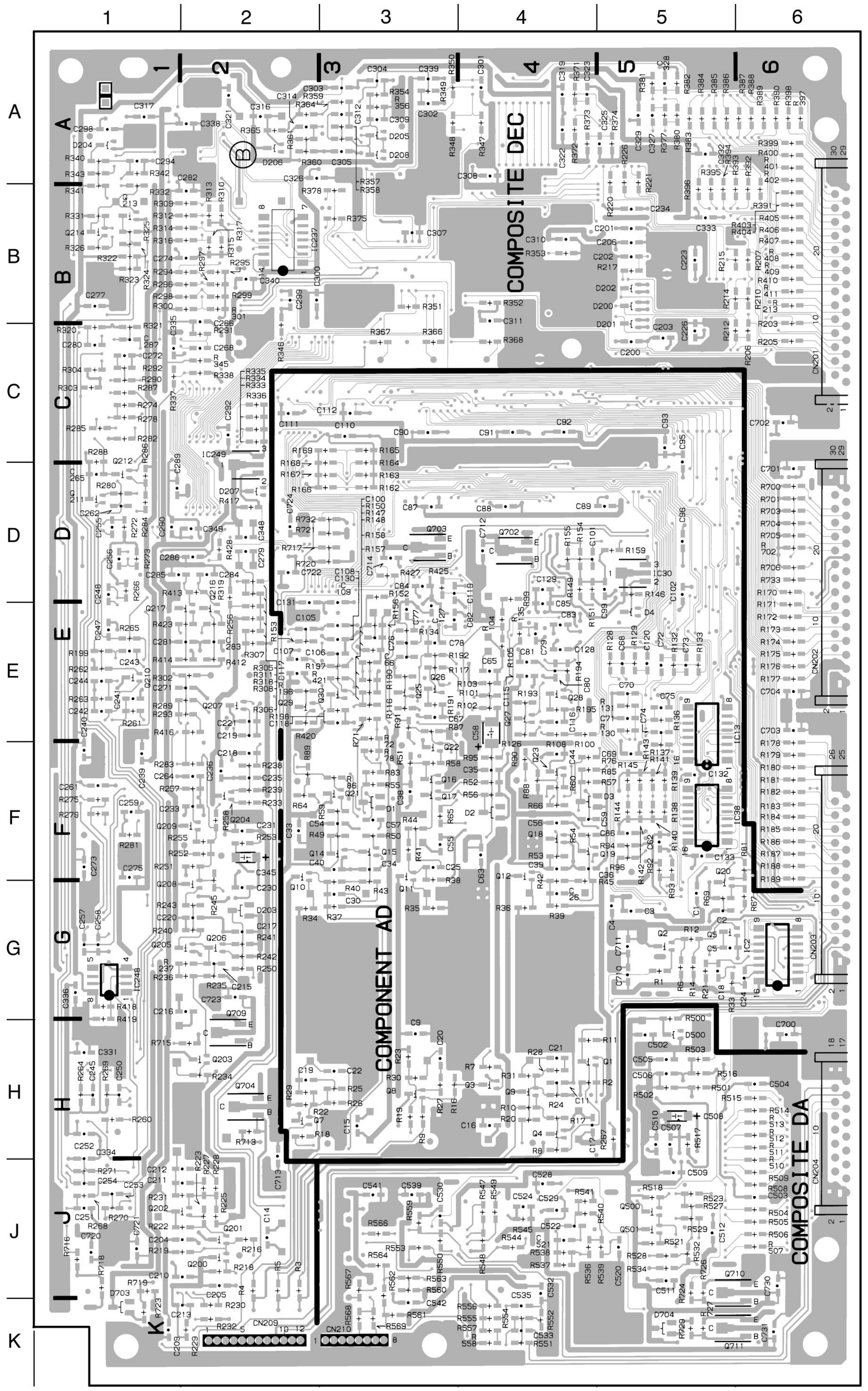
COMPONENT AD
COMPOSITE DEC
COMPOSITE DA
YWP-C

VPR-12 - A SIDE -

1-657-805-11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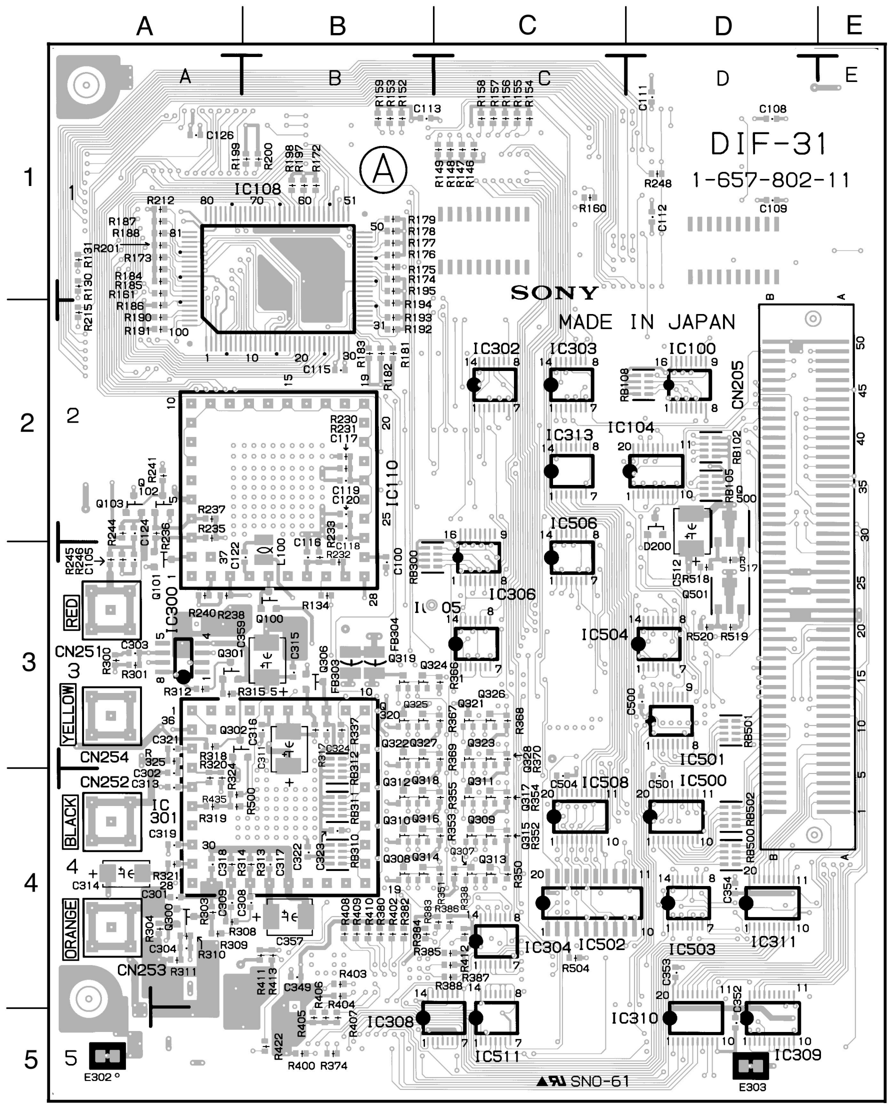
COMPONENT AD
COMPOSITE DA

VPR-12 - B SIDE -

1-657-805-11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1
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DIF-31
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SONY
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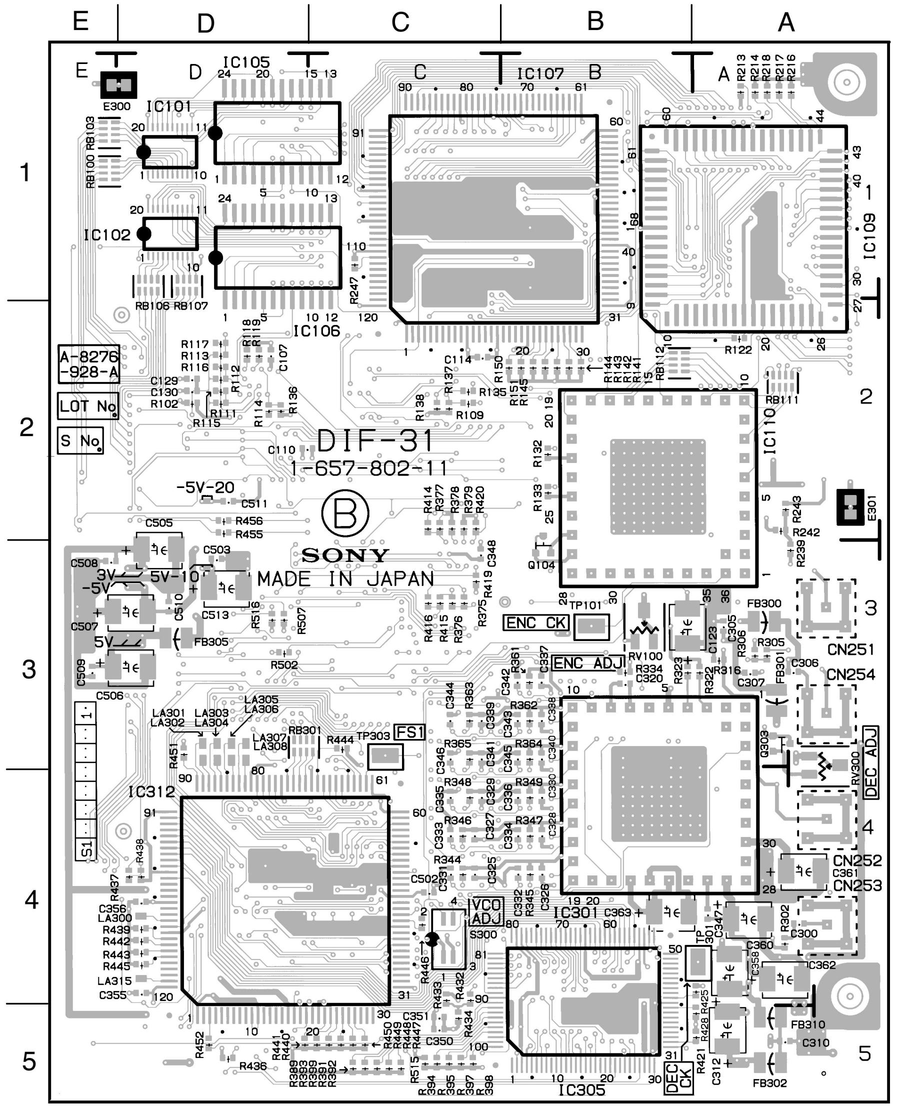
IC108
IC110
IC300
IC301
IC302
IC303
IC100
IC313
IC104
IC506
IC306
IC504
IC105
IC508
IC501
IC500
IC304
IC502
IC503
IC311
IC308
IC511
IC310
IC309
CN205
CN251
CN254
CN252
CN253
RED
YELLOW
BLACK
ORANGE
E302
E303
SNO-61

DIF-31 - A SIDE -
1-657-802-11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IC102
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IC312
IC301
IC305
DIF-31
1-657-802-11
SONY
MADE IN JAPAN
A-8276-928-A
LOT No
S No
-5V-20
3V
-5V
5V-10
5V
ENC CK
ENC ADJ
DEC ADJ
VCO ADJ
DEC CK
FS1
TP303
TP101
RV100
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CN251
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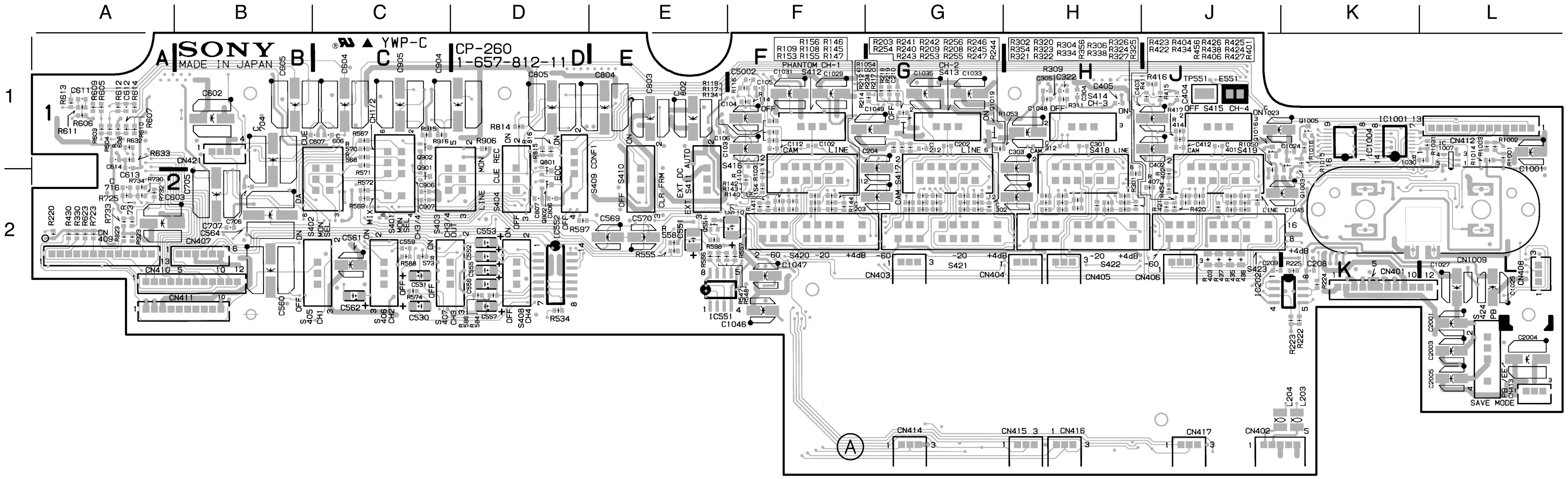
CN253
E300
E301
S1

DIF-31 - B SIDE -
1-657-802-11


A
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D
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G
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J
K
L
1
2
SONY
MADE IN JAPAN
YWP-C
CP-260
1-657-812-11
CN410
CN411
CN407
CN403
CN404
CN405
CN406
CN401
CN414
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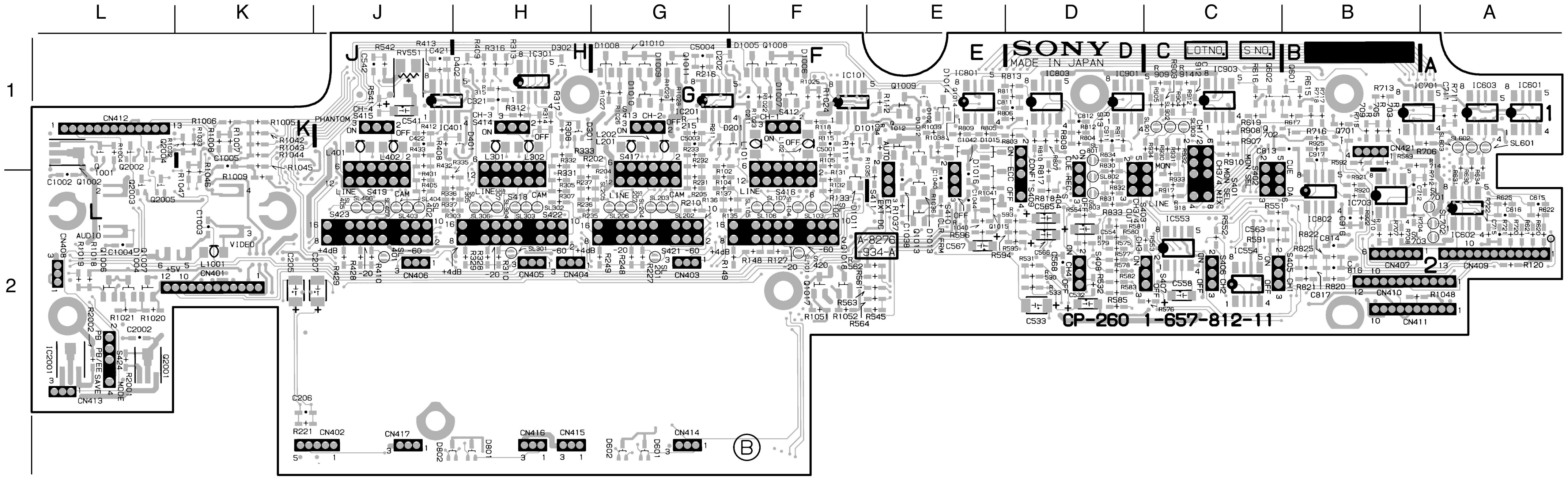
CN417
CN402
S420
S421
S422
S423
SAVE MODE

CP-260 - A SIDE -
1-657-812-11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SONY
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LOT NO.
S NO.
CP-260 1-657-812-11
CN412
CN401
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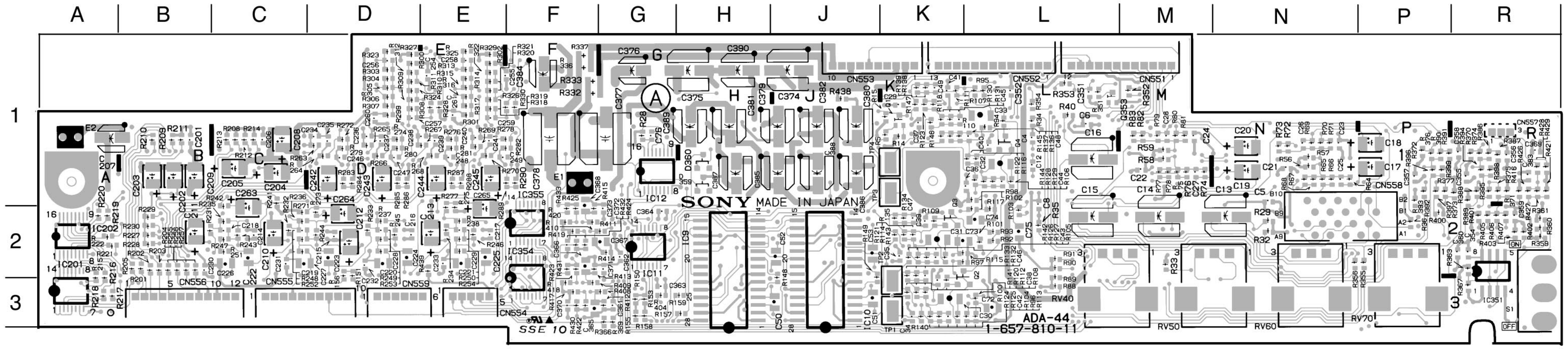
CN410
CN411

CP-260 - B SIDE -
1-657-812-11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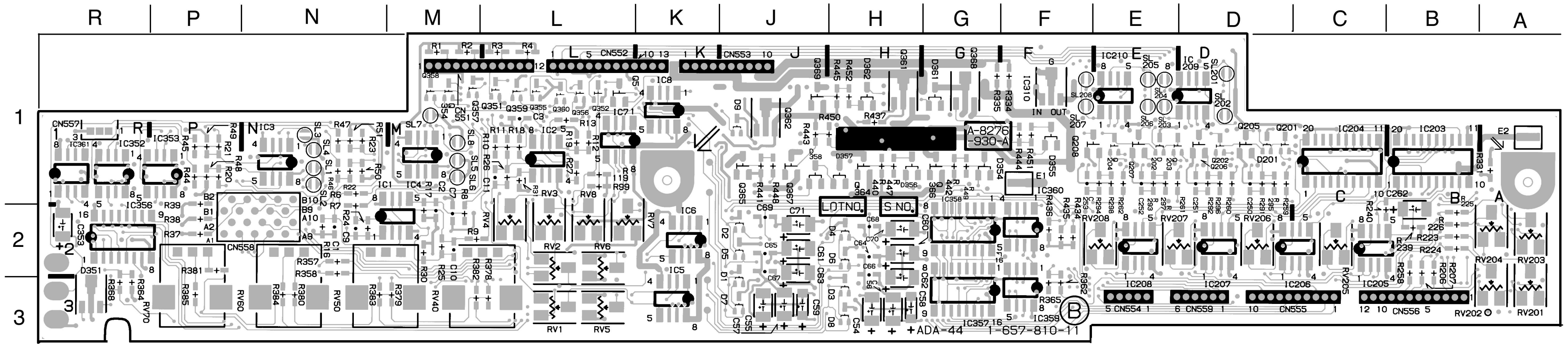
SONY MADE IN JAPAN
ADA-44
1-657-810-11

ADA-44 - A SIDE -
1-657-810-11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B
A
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LOT NO.
S NO.
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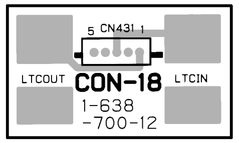
ADA-44 - B SIDE -
1-657-810-11


CN431
LTCOUT
CON-18
LTCIN
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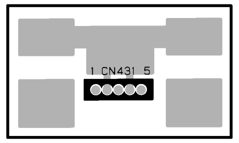
CON-18 - A SIDE -
1-638-700-12



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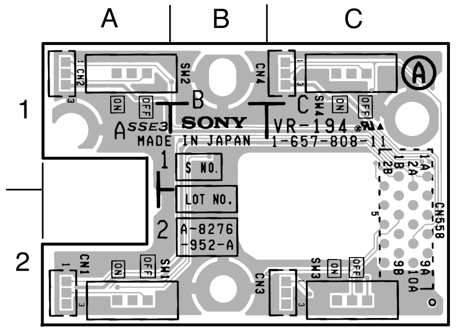
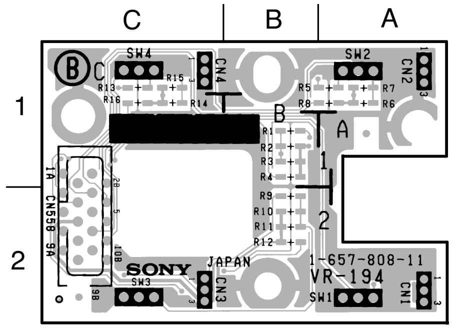
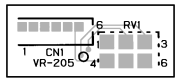
1-638-700-12


A
B
C
1
2
SONY
VR-194
1-657-808-11
MADE IN JAPAN
S NO.
LOT NO.
A-8276
-952-A
SW1
SW2
SW3
SW4
CN1
CN2
CN3
CN4
CN560
ON
OFF

VR-194 - A SIDE -
1-657-808-11


C
B
A
1
2
SONY
JAPAN
1-657-808-11
VR-194
SW1
SW2
SW3
SW4
CN1
CN2
CN3
CN4
CN560
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
R16

VR-205 - A SIDE -
1-657-814-11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VR-205
RV1
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3
4
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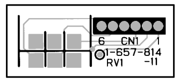
CN1
RV1
1-657-814
-11
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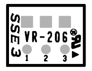
VR-205 - B SIDE -
1-657-814-11



VR-206 - A SIDE -
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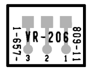
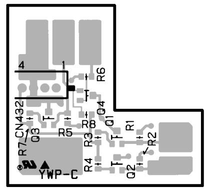
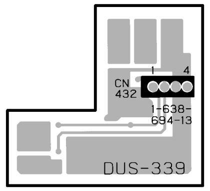

VR-206
1-657-809-11
3
2
1

VR-206 - B SIDE -
1-657-809-11


CN432
R1
R2
R3
R4
R5
R6
R7
R8
Q1
Q2
Q3
Q4
4
1

DUS-339 - A SIDE -
1-638-694-13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432
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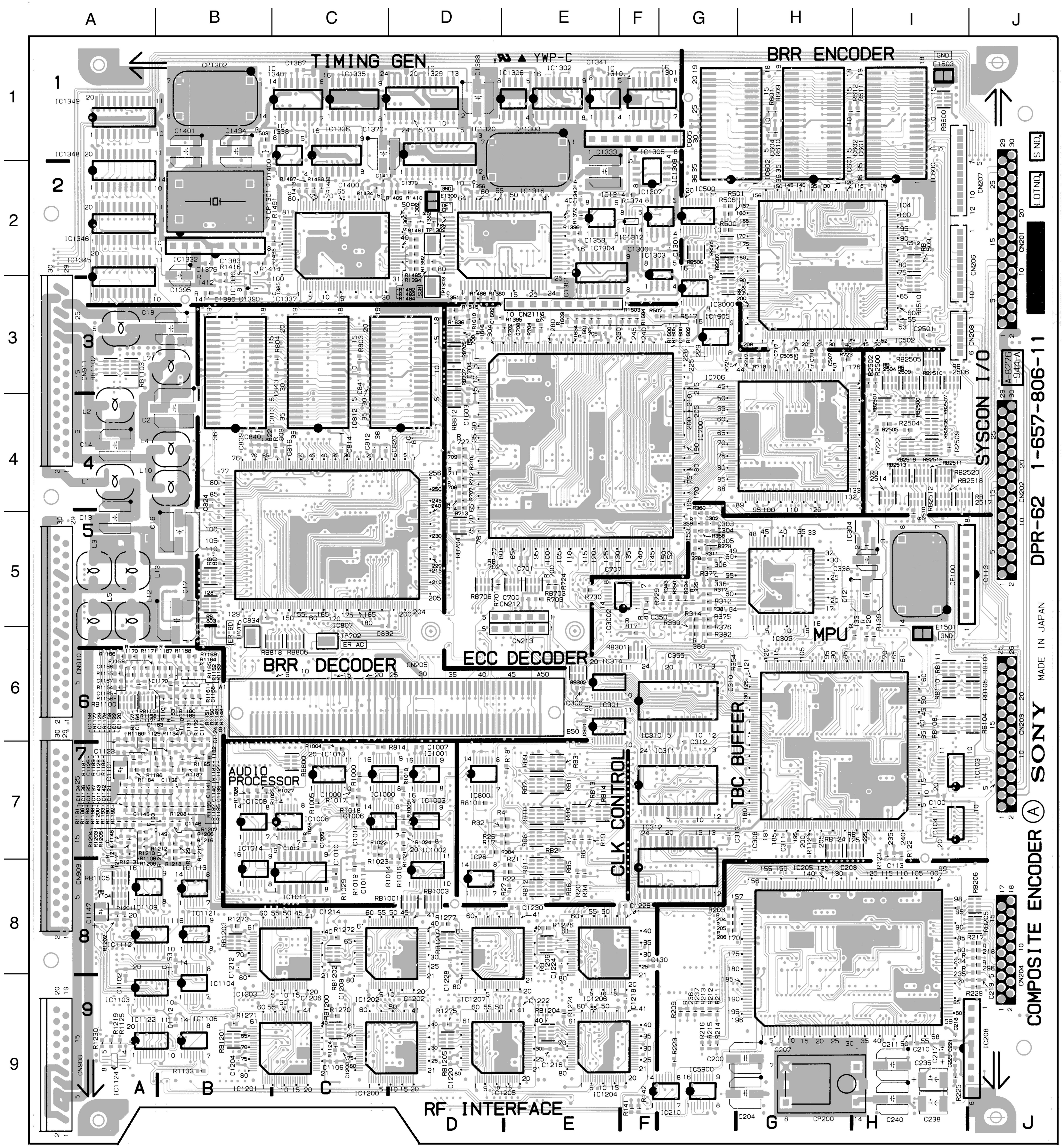
4
1-638-
694-13
DUS-339

DUS-339 - B SIDE -
1-638-694-13


A
B
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G
H
I
J
1
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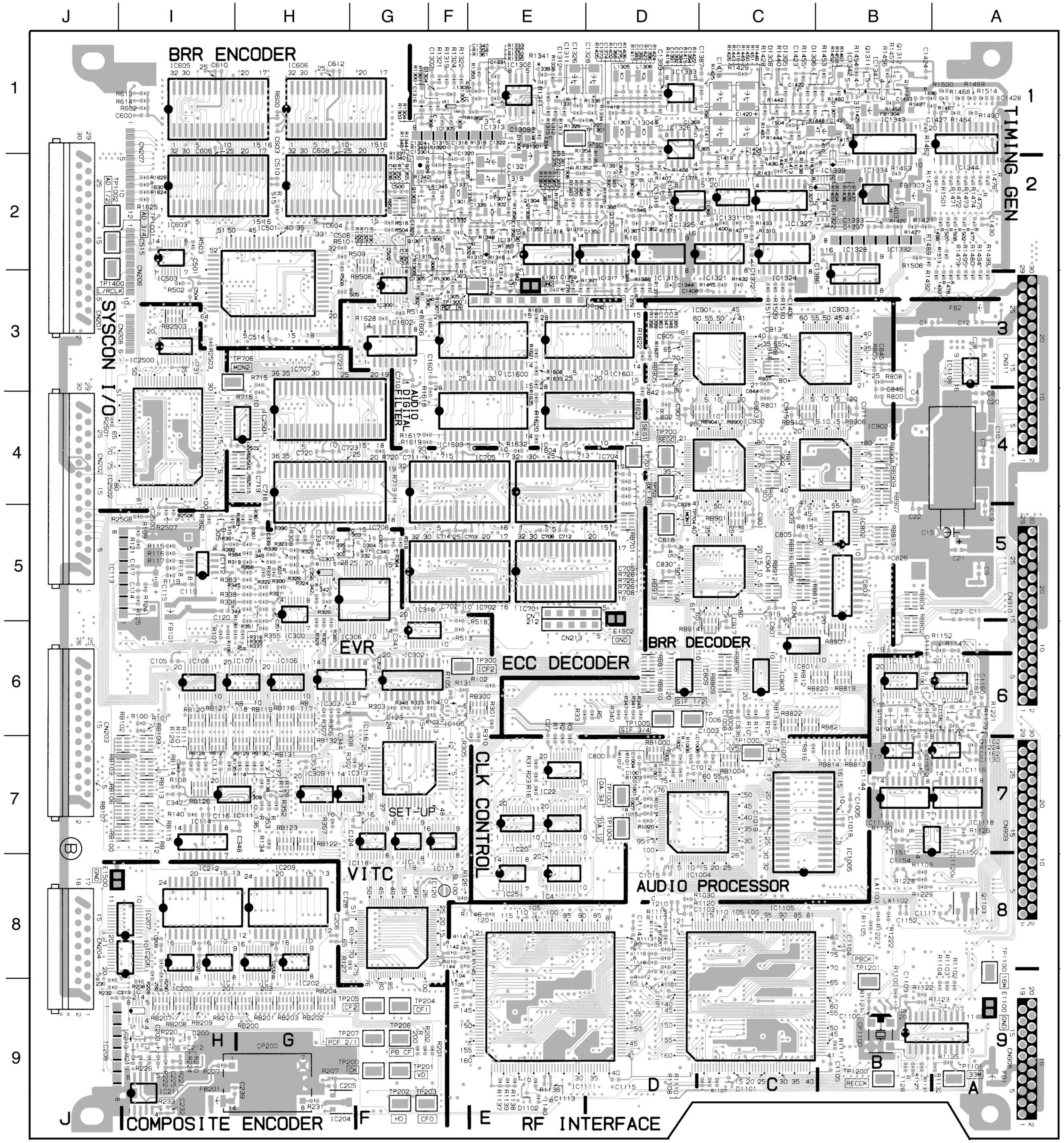
3
4
5
6
7
8
9
TIMING GEN
YWP-C
BRR ENCODER
SYSCON I/O
1-657-806-11
DPR-62
MADE IN JAPAN
SONY
COMPOSITE ENCODER
A
MPU
TBC BUFFER
CLK CONTROL
ECC DECODER
BRR DECODER
AUDIO PROCESSOR
RF INTERFACE
S NO.
LOT NO.
GND

DPR-62 - A SIDE -
1-657-806-11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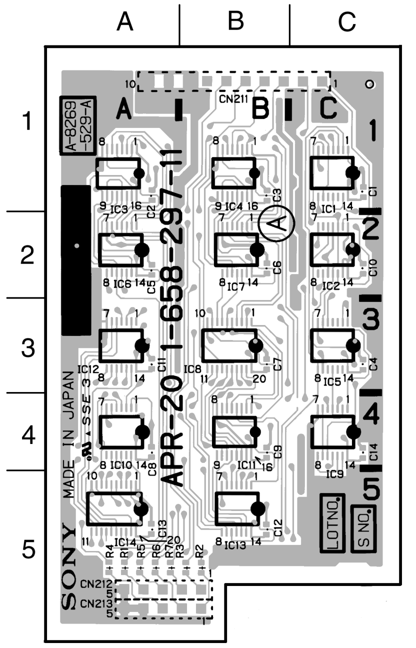
BRR ENCODER
TIMING GEN
SYSCON I/O
AUDIO DIGITAL FILTER
EVR
ECC DECODER
BRR DECODER
CLK CONTROL
SET-UP
VITC
AUDIO PROCESSOR
COMPOSITE ENCODER
RF INTERFACE

DPR-62 - B SIDE -

1-657-806-11


A
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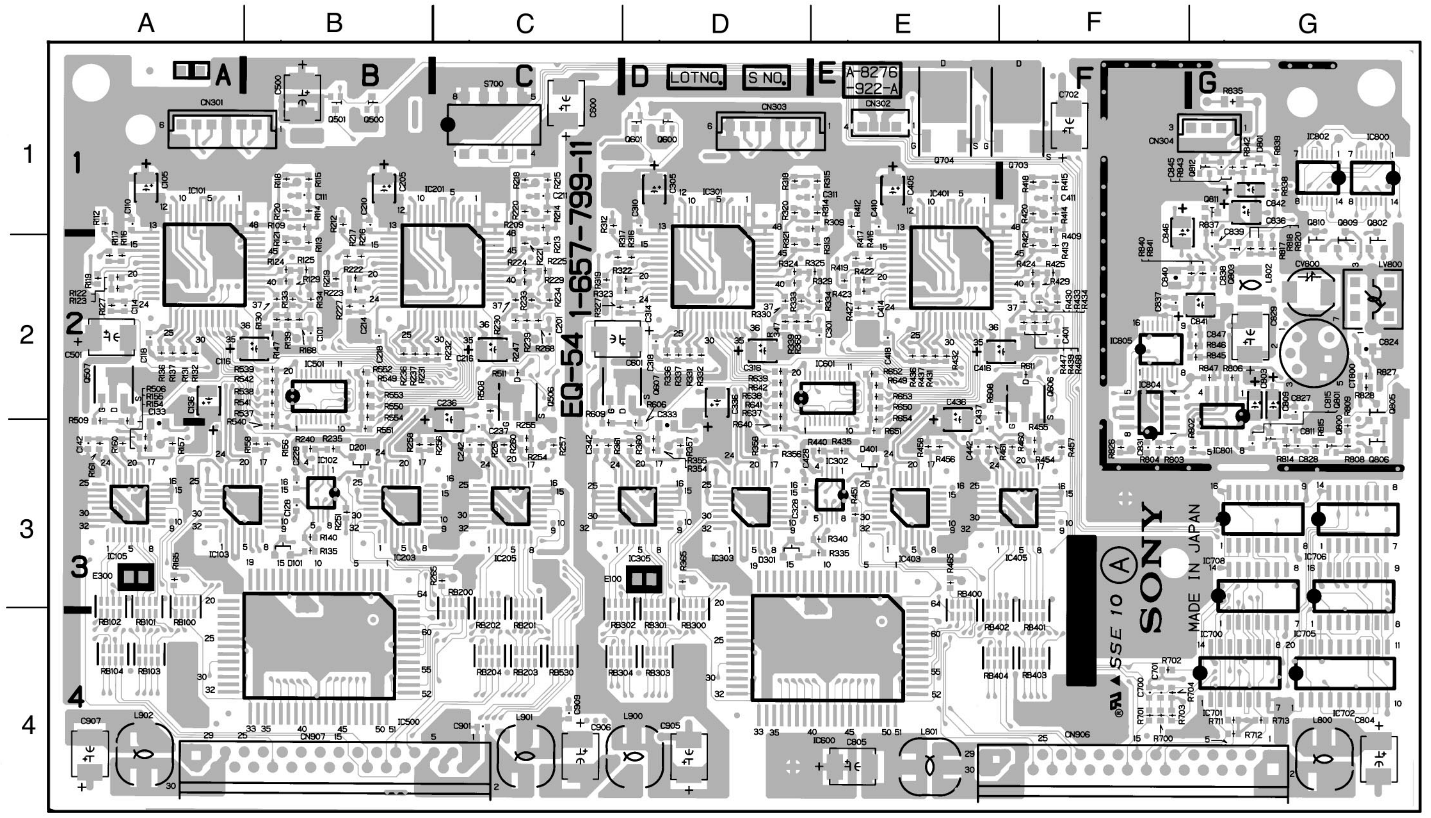
1-658-297-11
APR-20
SONY
MADE IN JAPAN
CN211
CN212
CN213
A

APR-20 - A SIDE -
1-658-297-11


A
B
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G
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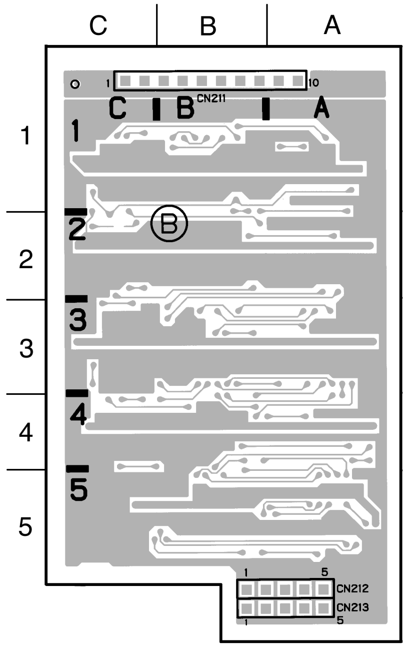
4
EQ-54
1-657-799-11
SONY
MADE IN JAPAN
A
LOT NO.
S NO.
CN906
CN907

EQ-54 - A SIDE -
1-657-799-11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CN211
CN212
CN213
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APR-20 - B SIDE -
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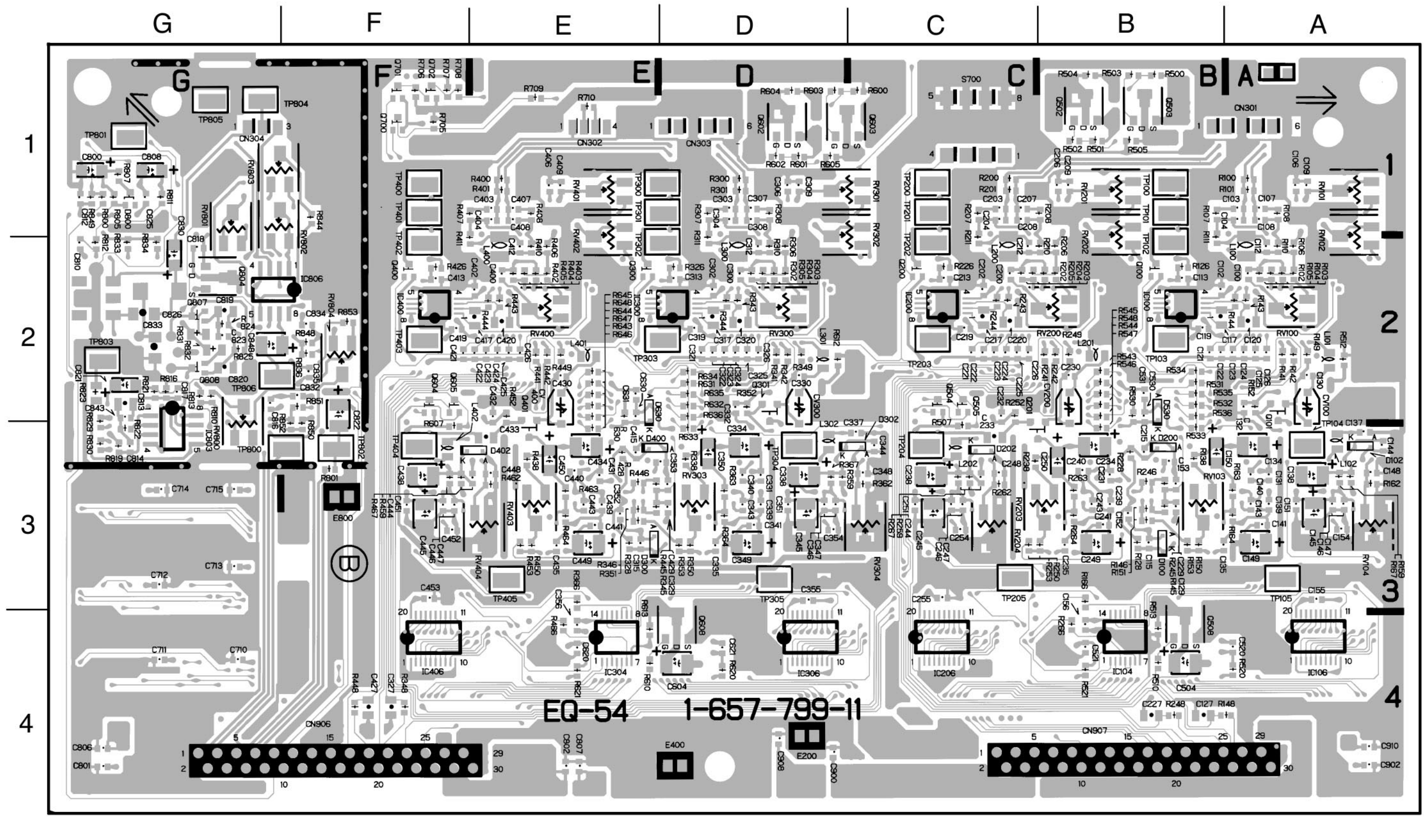
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EQ-54
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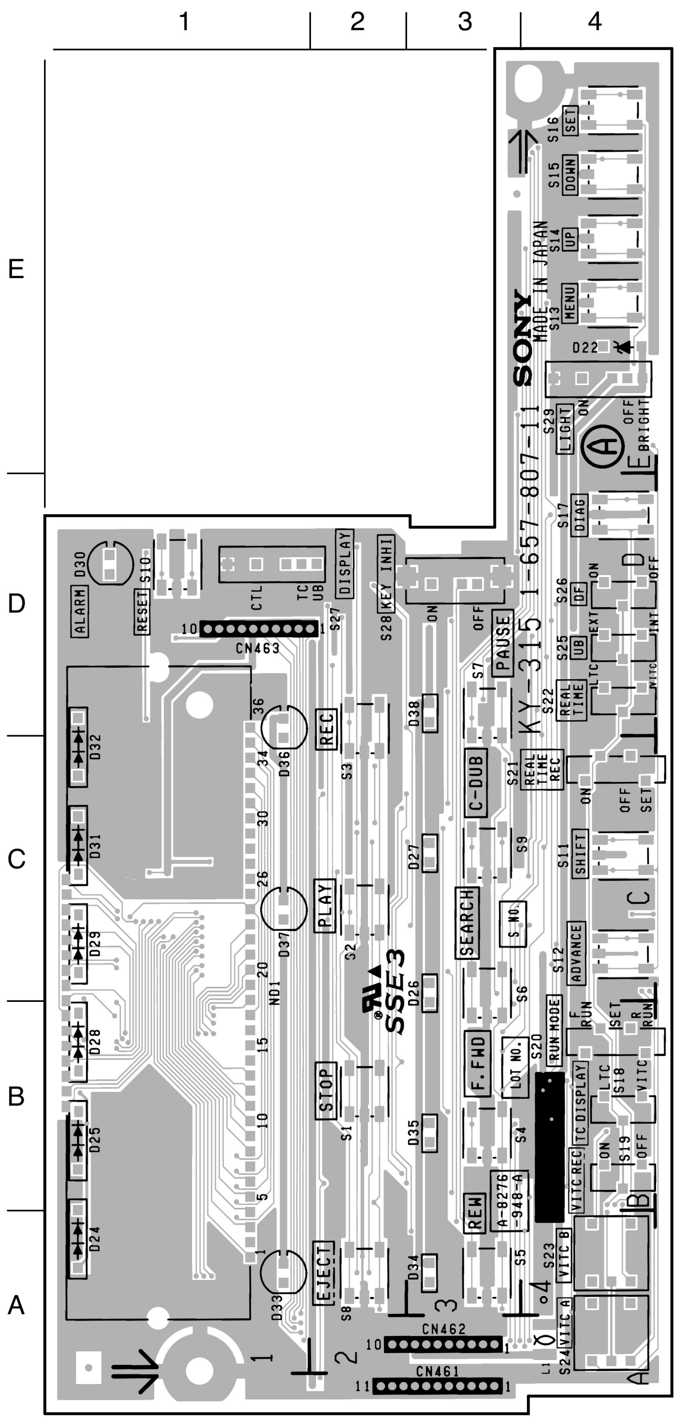
B
CN906
CN907

EQ-54 - B SIDE -
1-657-799-11


1
2
3
4
E
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C
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CN461
CN462
CN463
ND1
SONY
MADE IN JAPAN
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KY-315
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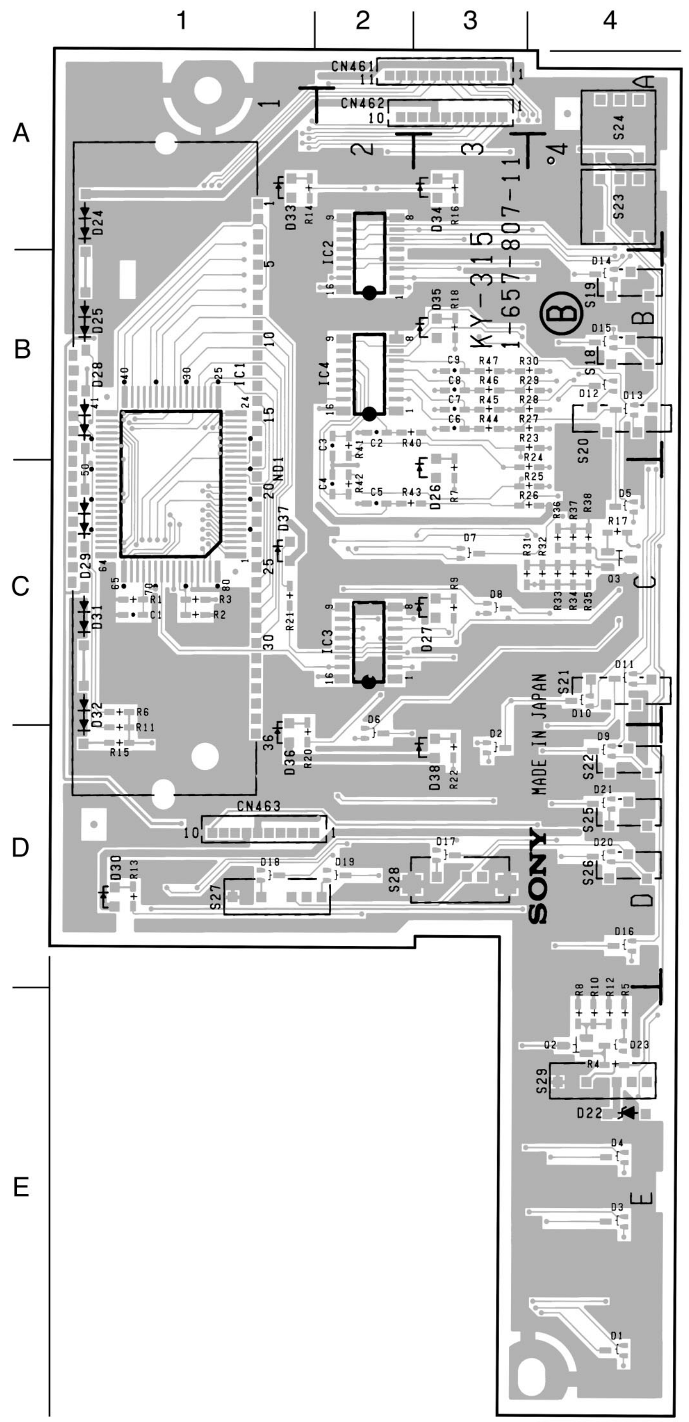
ALARM
RESET
CTL
TC UB
DISPLAY
KEY INH
PAUSE
REC
PLAY
STOP
EJECT
C-DUB
SEARCH
F.FWD
REW
SET
DOWN
UP
MENU
LIGHT
DIAG
ADVANCE
SHIFT
RUN MODE
TC DISPLAY
VITC REC
VITC B
VITC A

KY-315 - A SIDE -
1-657-807-11


1
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A
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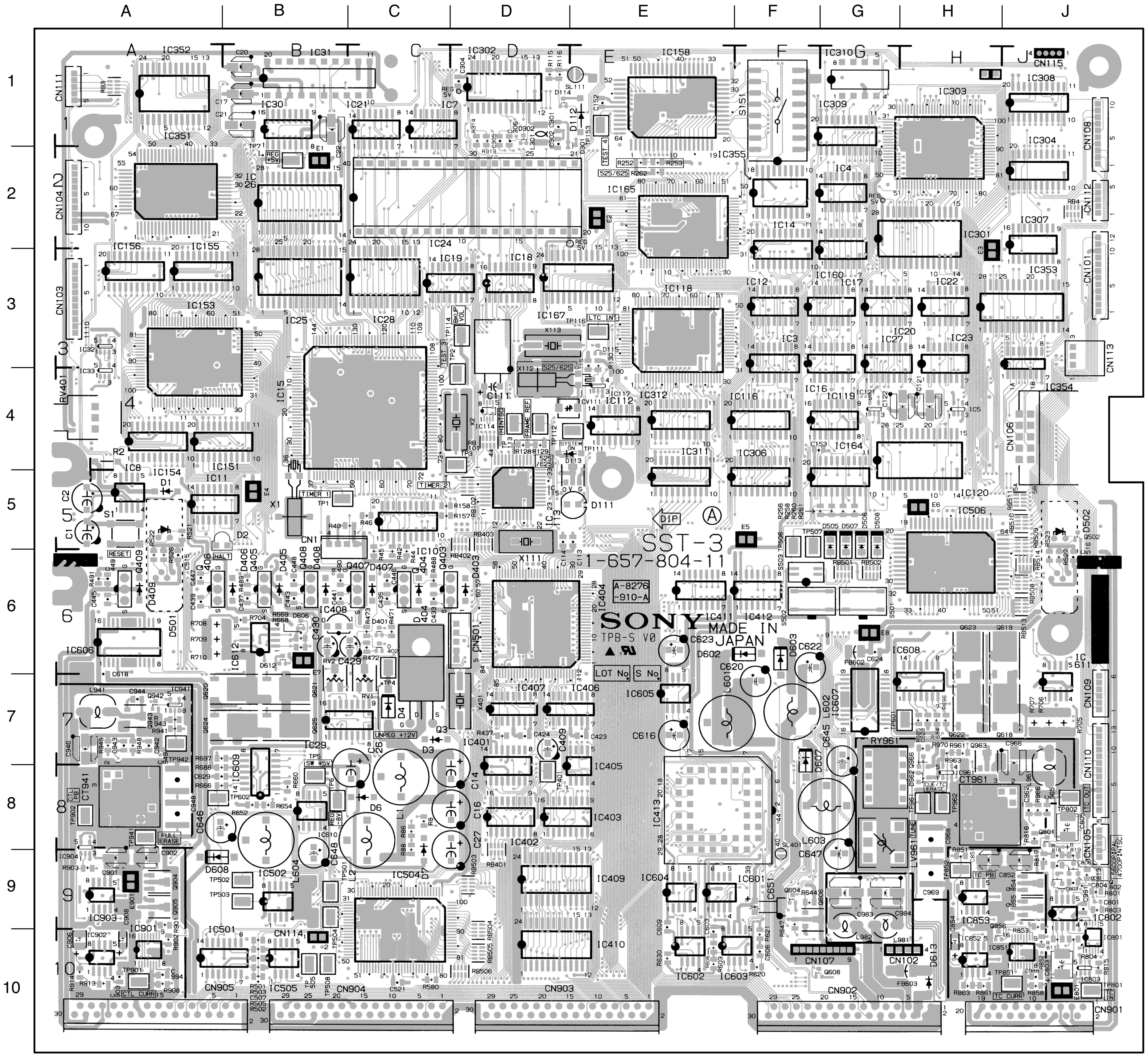
E
CN461
CN462
CN463
IC1
IC2
IC3
IC4
ND1
KY-315
1-657-807-11
MADE IN JAPAN
SONY

KY-315 - B SIDE -
1-657-807-11


A
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C
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J
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6
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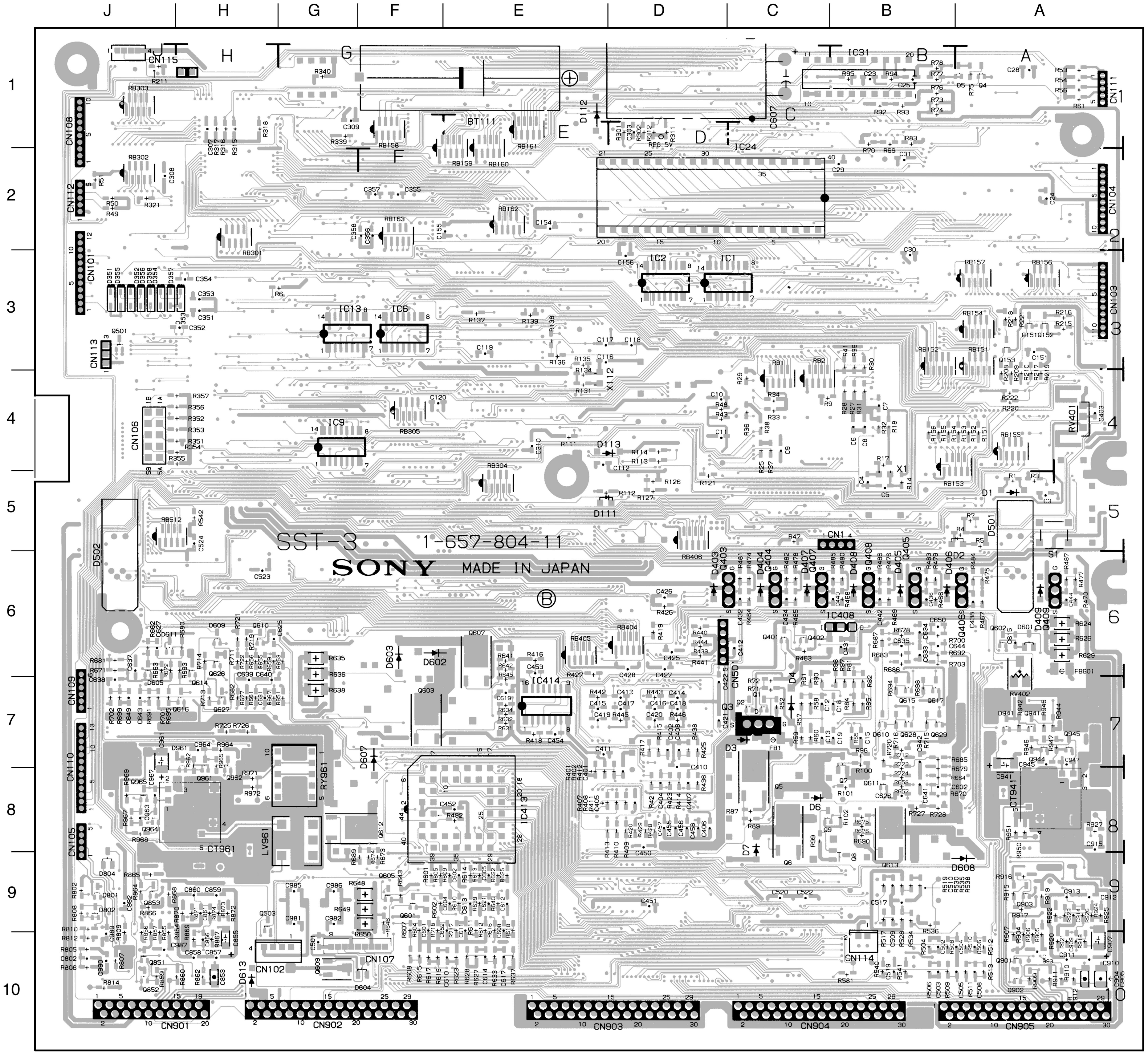
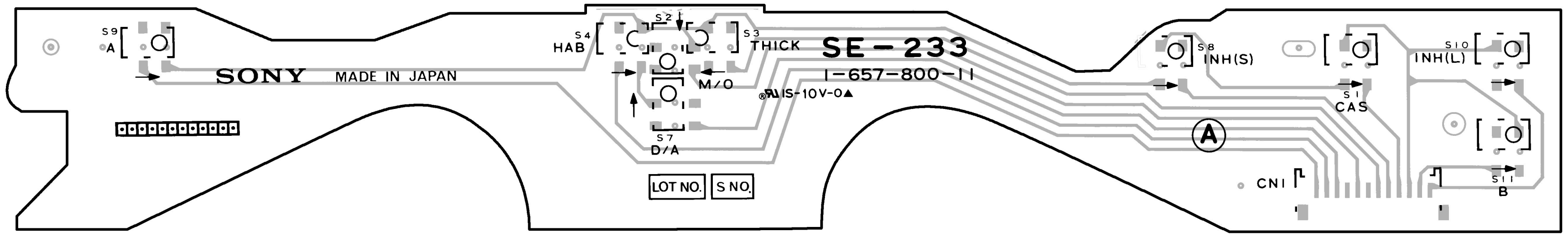
8
9
10
SST-3
1-657-804-11
A-8276
-910-A
SONY
MADE IN
JAPAN
TPB-S V0
LOT No
S No
DIP
RESET
HALT
TIMER 1
TIMER 2
UNREG +12V
CN901
CN902
CN903
CN904
CN905

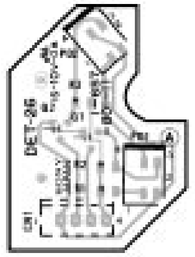
SST-3 - A SIDE -
1-657-804-11


J
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
SST-3
1-657-804-11
SONY
MADE IN JAPAN
CN115
CN108
CN112
CN101
CN113
CN106
CN109
CN110
CN105
CN901
CN902
CN903
CN904
CN905
CN111
CN104
CN103
CN1
CN501
CN114
CN102
CN107
IC31
IC24
IC2
IC1
IC13
IC6
IC9
IC408
IC414
IC413
BT111
X112
X1
RV401
RV402
CT941
CT961
RY961
LV961
D501
D502
S1

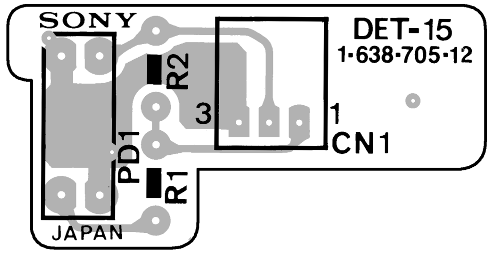
SST-3 - B SIDE -
1-657-804-11


S9
A
SONY
MADE IN JAPAN
S4
HAB
S2
S3
THICK
M/O
S7
D/A
SE-233
1-657-800-11
LOT NO.
S NO.
S8
INH(S)
S1
CAS
S10
INH(L)
A
CN1
S11
B

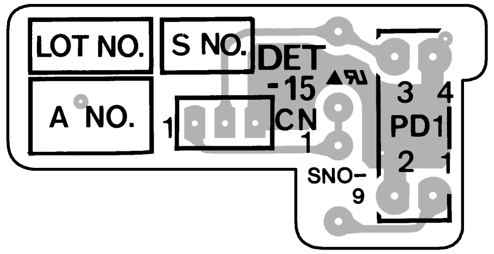
SE-233 - A SIDE -
1-657-800-11



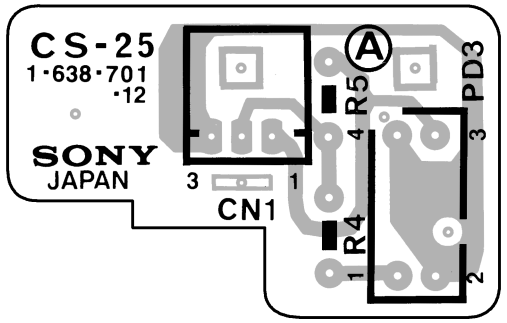
DET-26 - A SIDE -
1-657-801-11,-12


SONY
DET-15
1-638-705-12
R2
3
1
CN1
PD1
R1
JAPAN

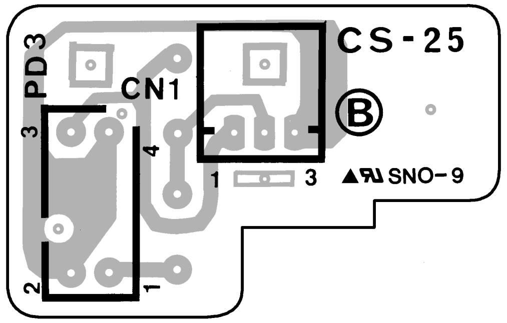
DET-15 - A SIDE -
1-638-705 -12


LOT NO.
S NO.
DET
-15
A NO.
1
CN
1
3
4
PD1
2
1
SNO-
9

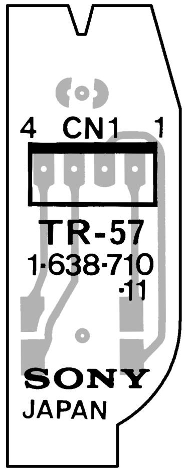
DET-15 - B SIDE -
1-638-705 -12


CS-25
1·638·701
·12
SONY
JAPAN
A
R5
R4
PD3
CN1
3
1
4
3
1
2

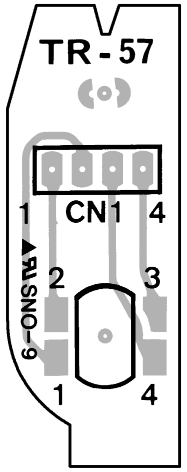
CS-25 - A SIDE -
1-638-701-12


PD3
CN1
CS-25
B
SNO-9
3
4
1
3
2
1

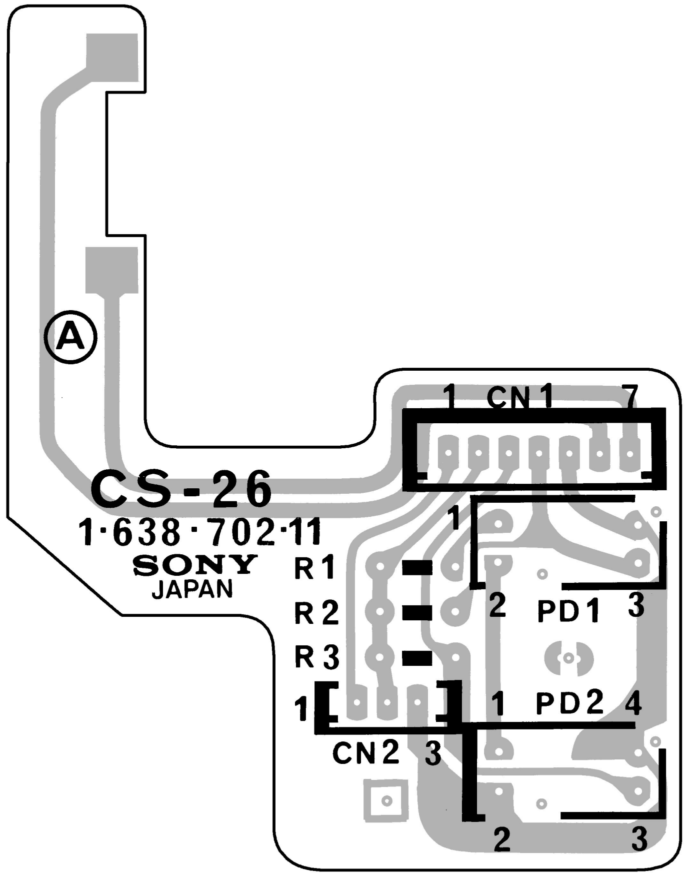
CS-25 - B SIDE -
1-638-701-12


4 CN1 1
TR-57
1·638·710
·11
SONY
JAPAN

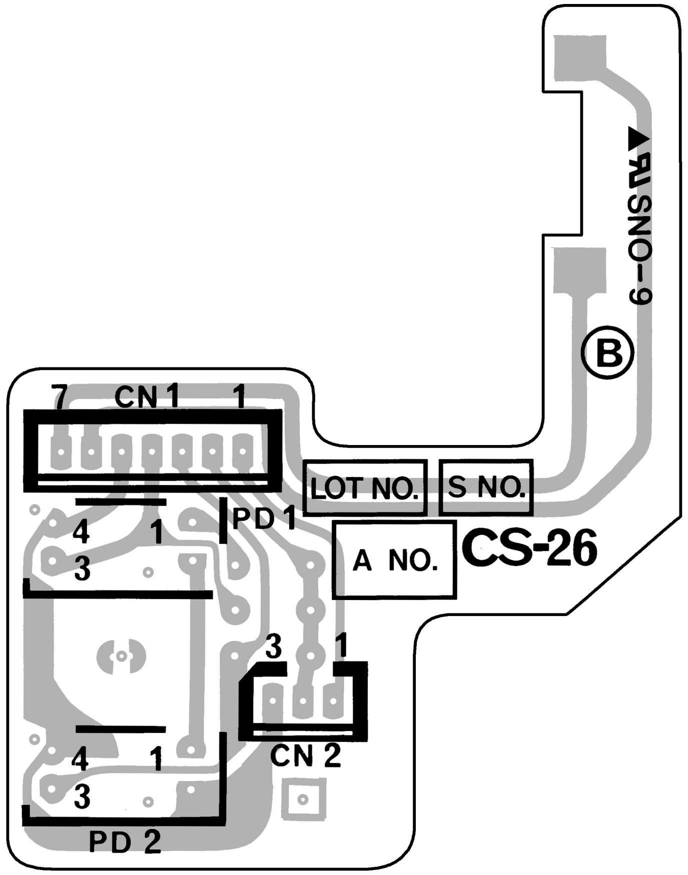
TR-57 - A SIDE -
1-638-710-11


TR-57
1 CN1 4
SNO-9
2
3
1
4

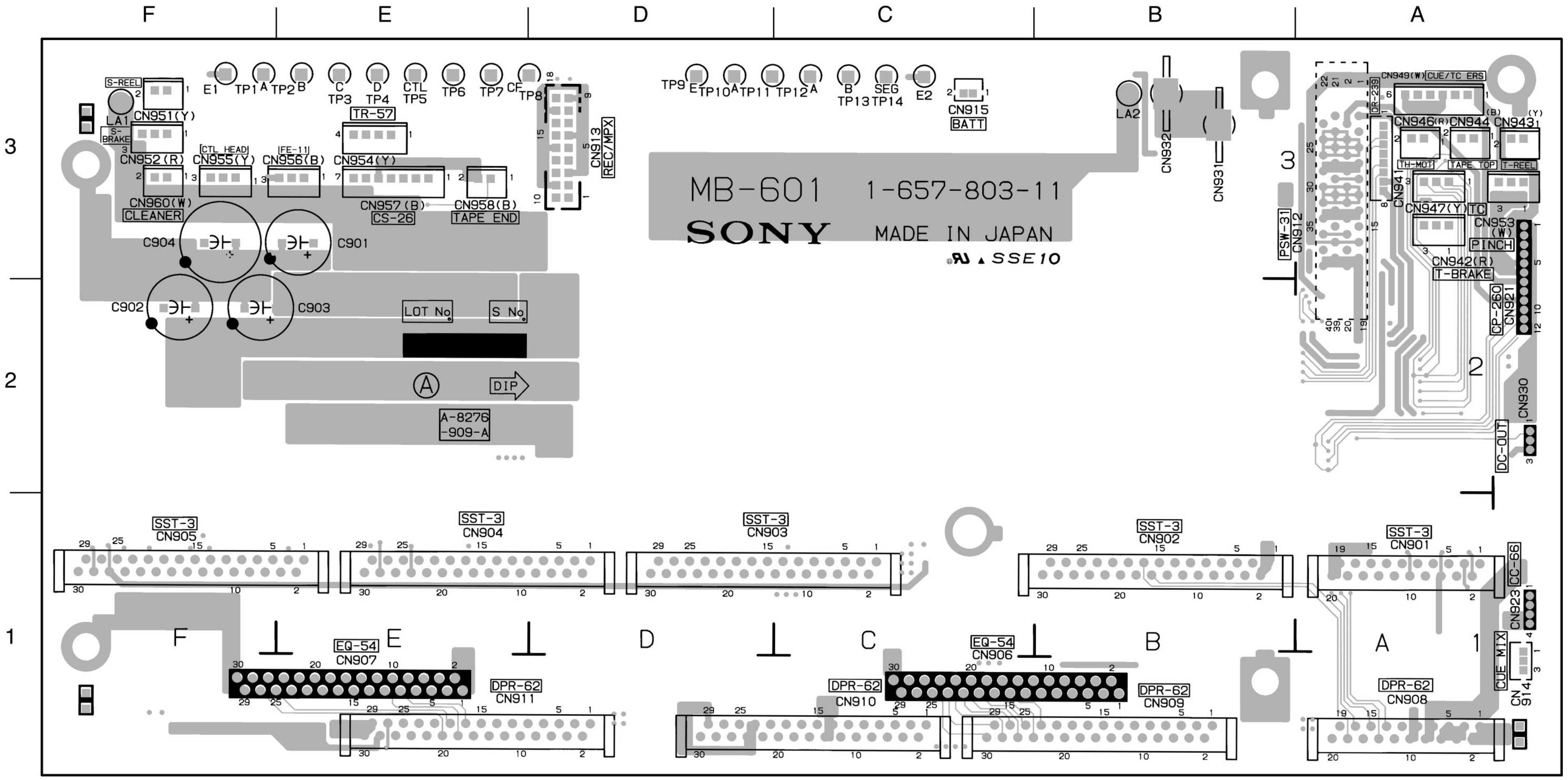
TR-57 - B SIDE -
1-638-710-11


A
CS-26
1·638·702·11
SONY
JAPAN
1 CN1 7
R1
R2
R3
1
2
PD1
3
1
PD2
4
1
CN2
3
2
3

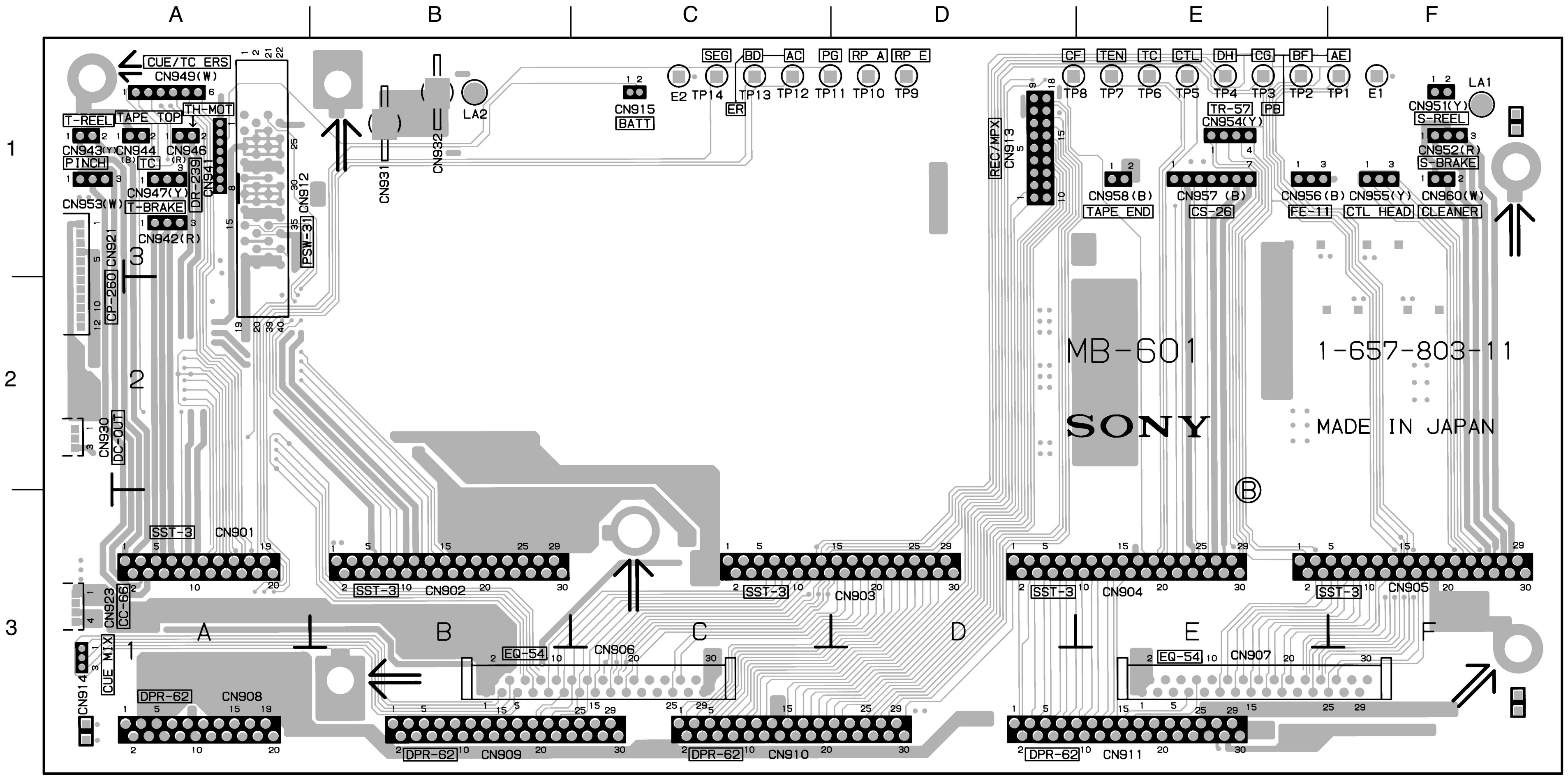
CS-26 - A SIDE -
1-638-702-11


SNO-9
B
7 CN1 1
LOT NO.
S NO.
PD1
4
1
3
A NO.
CS-26
3
1
CN2
4
1
3
PD2

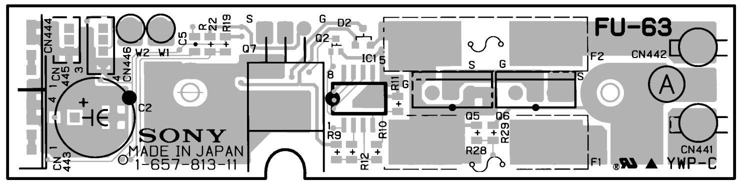
CS-26 - B SIDE -
1-638-702-11


F
E
D
C
B
A
3
2
1
MB-601 1-657-803-11
SONY
MADE IN JAPAN
SSE10
CN951(Y)
CN952(R)
CN955(Y)
CN956(B)
CN954(Y)
CN957(B)
CS-26
CN958(B)
TAPE END
CN960(W)
CLEANER
TR-57
CN913
REC/MPX
CN915
BATT
CN932
CN931
CN912
PSW-31
CN949(W)
CUE/TC ERS
CN946(R)
CN944
CN943(Y)
CN941
DR-239
CN947(Y)
TC
CN953(W)
PINCH
CN942(R)
T-BRAKE
CP-260
CN921
CN930
DC-OUT
C901
C902
C903
C904
LOT No
S No
DIP
A-8276-909-A
SST-3
CN905
CN904
CN903
CN902
CN901
CC-66
CN923
CUE MIX
CN914
EQ-54
CN907
CN906
DPR-62
CN911
CN910
CN909
CN908
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
TP10
TP11
TP12
TP13
TP14
E1
E2
LA1
LA2
S-REEL
S-BRAKE
CTL HEAD
FE-11
TH-MOT
TAPE TOP
T-REEL

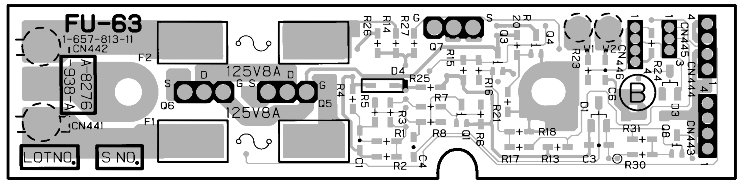
MB-601 - A SIDE -
1-657-803-11


A
B
C
D
E
F
1
2
3
CUE/TC ERS
CN949(W)
T-REEL
TAPE TOP
TH-MOT
CN943(Y)
CN944
CN946
PINCH
TC
DR-239
CN941
CN953(W)
CN947(Y)
T-BRAKE
CN942(R)
CN912
PSW-31
CN921
CP-260
CN930
DC-OUT
CN923
DC-66
CN914
CUE MIX
CN931
CN932
LA2
CN915
BATT
SEG
BD
AC
PG
RP A
RP E
E2
TP14
TP13
TP12
TP11
TP10
TP9
ER
REC/MPX
CN913
CF
TEN
TC
CTL
DH
CG
BF
AE
TP8
TP7
TP6
TP5
TP4
TP3
TP2
TP1
E1
TR-57
CN954(Y)
PB
CN951(Y)
S-REEL
LA1
CN952(R)
S-BRAKE
CN958(B)
TAPE END
CN957 (B)
CS-26
CN956(B)
FE-11
CN955(Y)
CTL HEAD
CN960(W)
CLEANER
MB-601
1-657-803-11
SONY
MADE IN JAPAN
B
SST-3
CN901
CN902
CN903
CN904
CN905
EQ-54
CN906
CN907
DPR-62
CN908
CN909
CN910
CN911

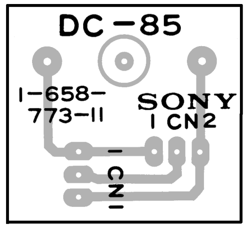
MB-601 - B SIDE -
1-657-803-11


FU-63
CN444
CN445
CN446
CN442
CN441
SONY
MADE IN JAPAN
1-657-813-11
A
Q7
IC1
Q5
Q6
R28
R29
R9
R10
R11
R12
F1
F2
YWP-C

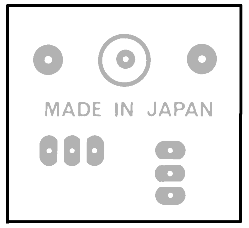
FU-63 - A SIDE -
1-657-813-11


FU-63
1-657-813-11
CN442
CN441
125V8A
125V8A
Q6
Q5
Q7
F1
F2
D4
R25
B
CN445
CN444
CN443
LOTNO.
S NO.

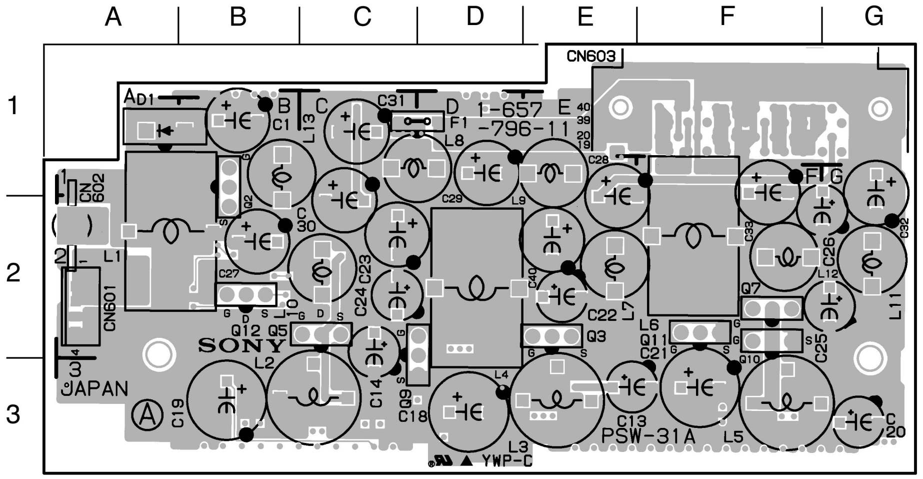
FU-63 - B SIDE -
1-657-813-11


DC-85
1-658-773-11
SONY
1 CN2
1 CN1

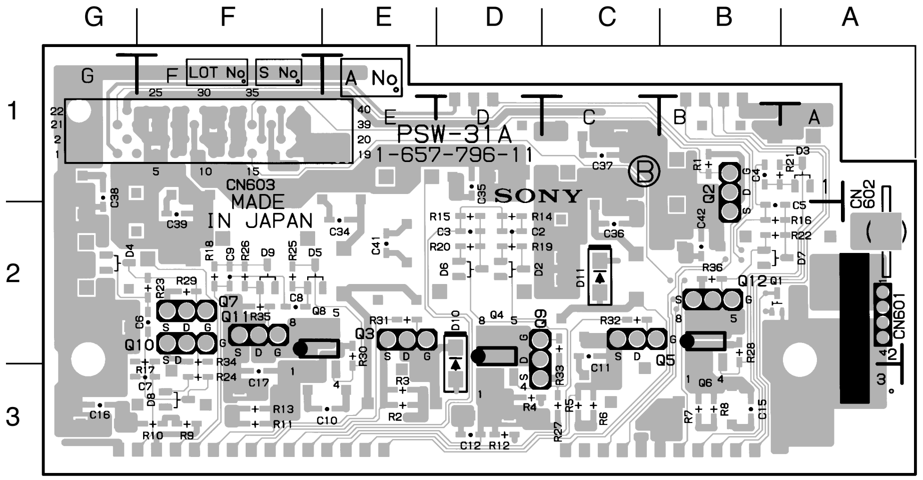
DC-85 - A SIDE -
1-658-773-11


MADE IN JAPAN

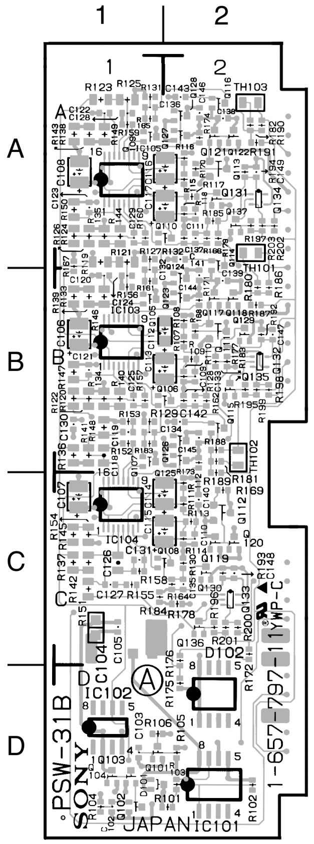
DC-85 - B SIDE -
1-658-773-11



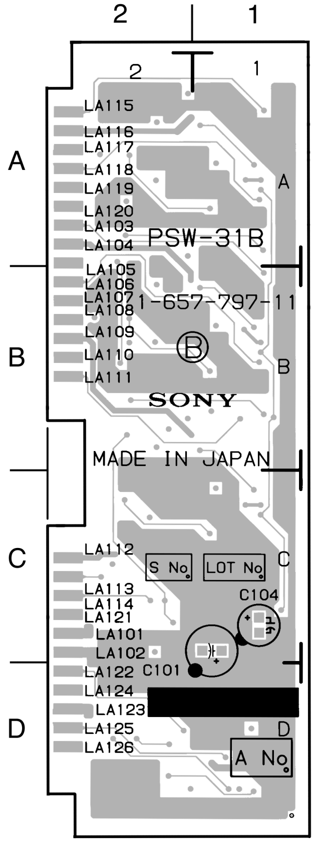
PSW-31A - A SIDE -
1-657-796-11



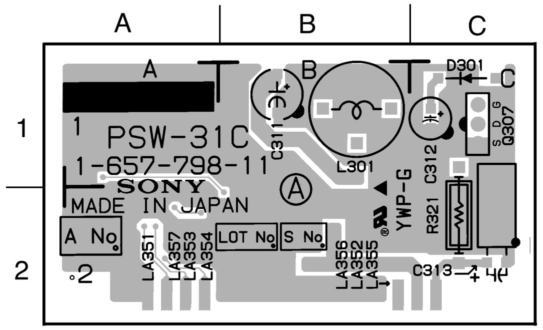
PSW-31A - B SIDE -
1-657-796-11



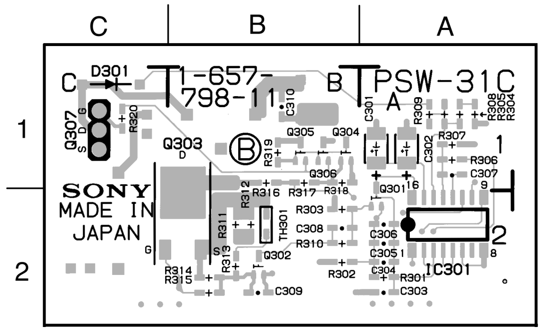
PSW-31B - A SIDE -
1-657-797-11



PSW-31B - B SIDE -
1-657-797-11



PSW-31C - A SIDE -
1-657-798-11



PSW-31C - B SIDE -
1-657-798-11

http://getMANUAL.com

Section 3
Schematic Diagrams

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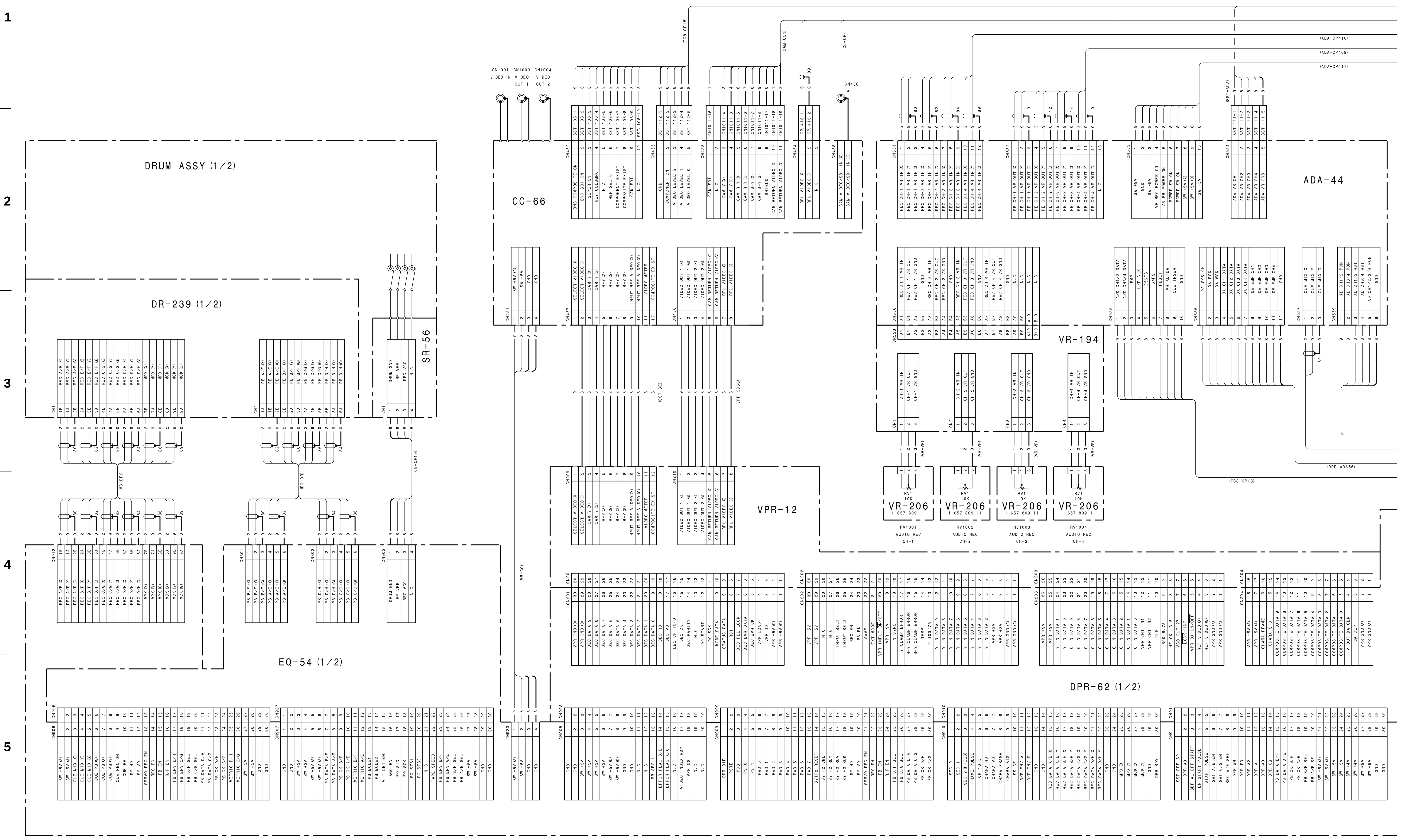
FRAME WIRING (1/2)

FRAME WIRING (1/2)

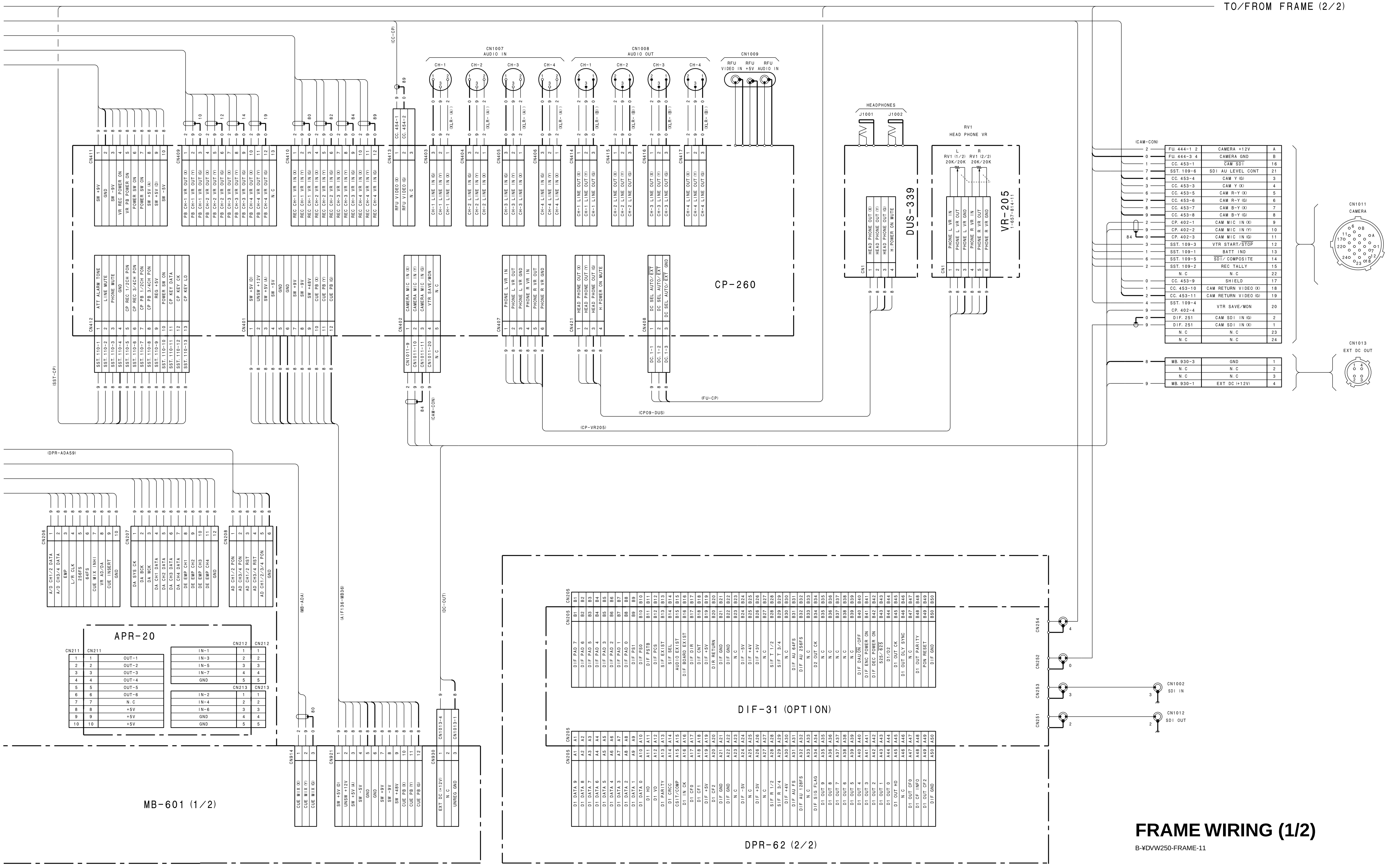
DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)



DRUM ASSY (1/2)
DR-239 (1/2)
SR-56
EQ-54 (1/2)
CC-66
VPR-12
VR-194
ADA-44
DPR-62 (1/2)
VR-206
RV1001 AUDIO REC CH-1
RV1002 AUDIO REC CH-2
RV1003 AUDIO REC CH-3
RV1004 AUDIO REC CH-4
CN1001 VIDEO IN
CN1003 VIDEO OUT 1
CN1004 VIDEO OUT 2
CN458
(TC8-CP18)
(CAM-CON)
(CC-CP)
(ADA-CP410)
(ADA-CP409)
(ADA-CP411)
(SST-ADA)
(MB-DR2)
(EQ-DR)
(TC9-CP19)
(SST-SE)
(VPR-CC56)
(MB-CC)
(VR-VR)
(DPR-ADA56)
(TC8-CP18)
1
2
3
4
5
A
B
C
D
E
F
G
H

3-2

FRAME WIRING (1/2)


TO/FROM FRAME (2/2)
CN1007
AUDIO IN
CN1008
AUDIO OUT
CN1009
RFU VIDEO IN
RFU +5V
RFU AUDIO IN
HEADPHONES
J1001
J1002
RV1
HEAD PHONE VR
CP-260
DUS-339
VR-205
1-657-814-11
CN1011
CAMERA
CN1013
EXT DC OUT
(CAM-CON)
(FU-CP)
(CP09-DUS)
(CP-VR205)
(SST-CP)
(DPR-ADA59)
(MB-ADA)
(AIF136-MB36)
(DC-OUT)
APR-20
MB-601 (1/2)
DIF-31 (OPTION)
DPR-62 (2/2)
CN1002
SDI IN
CN1012
SDI OUT
1
2
3
4
5

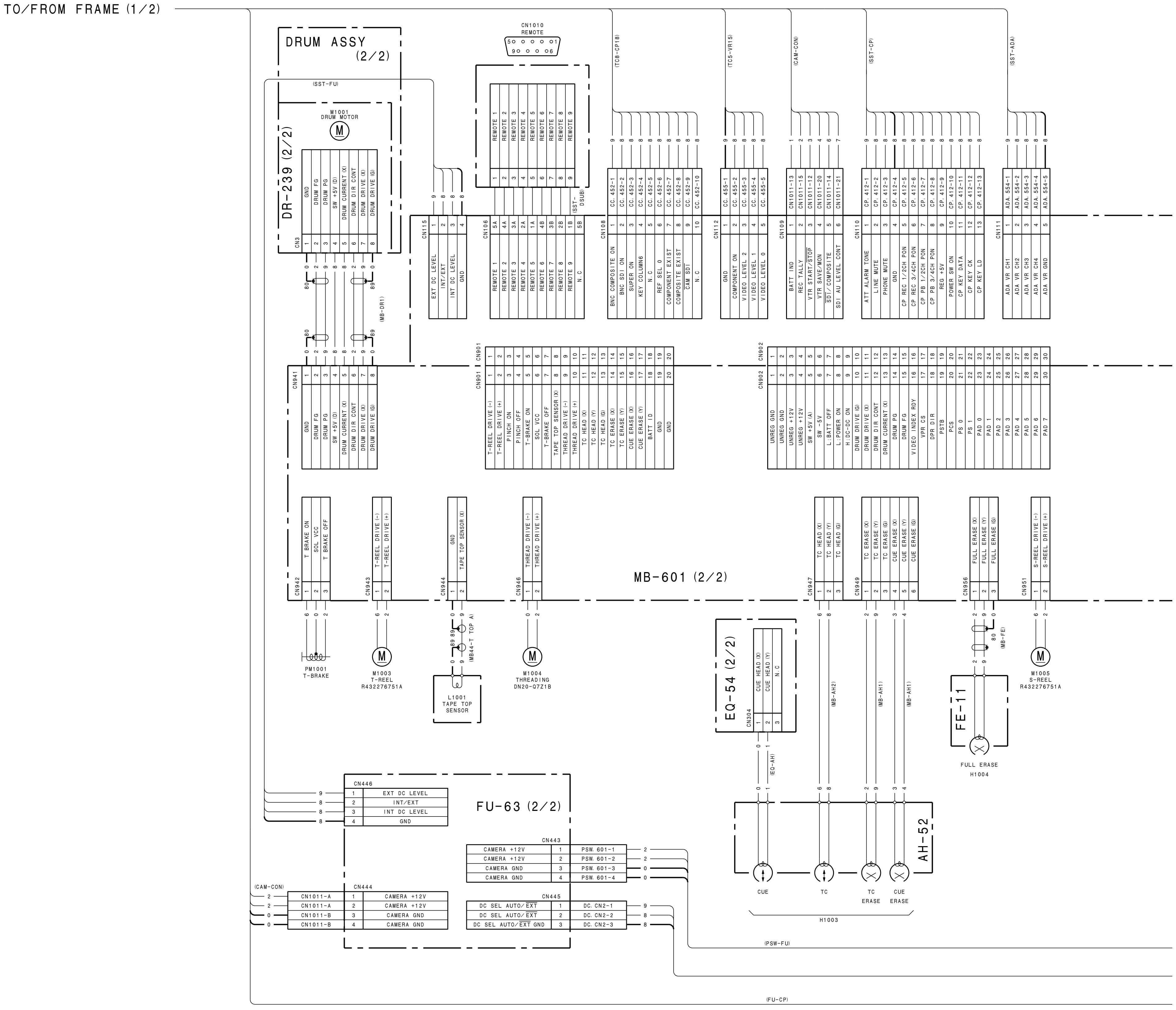
FRAME WIRING (1/2)

B-¥DVW250-FRAME-11

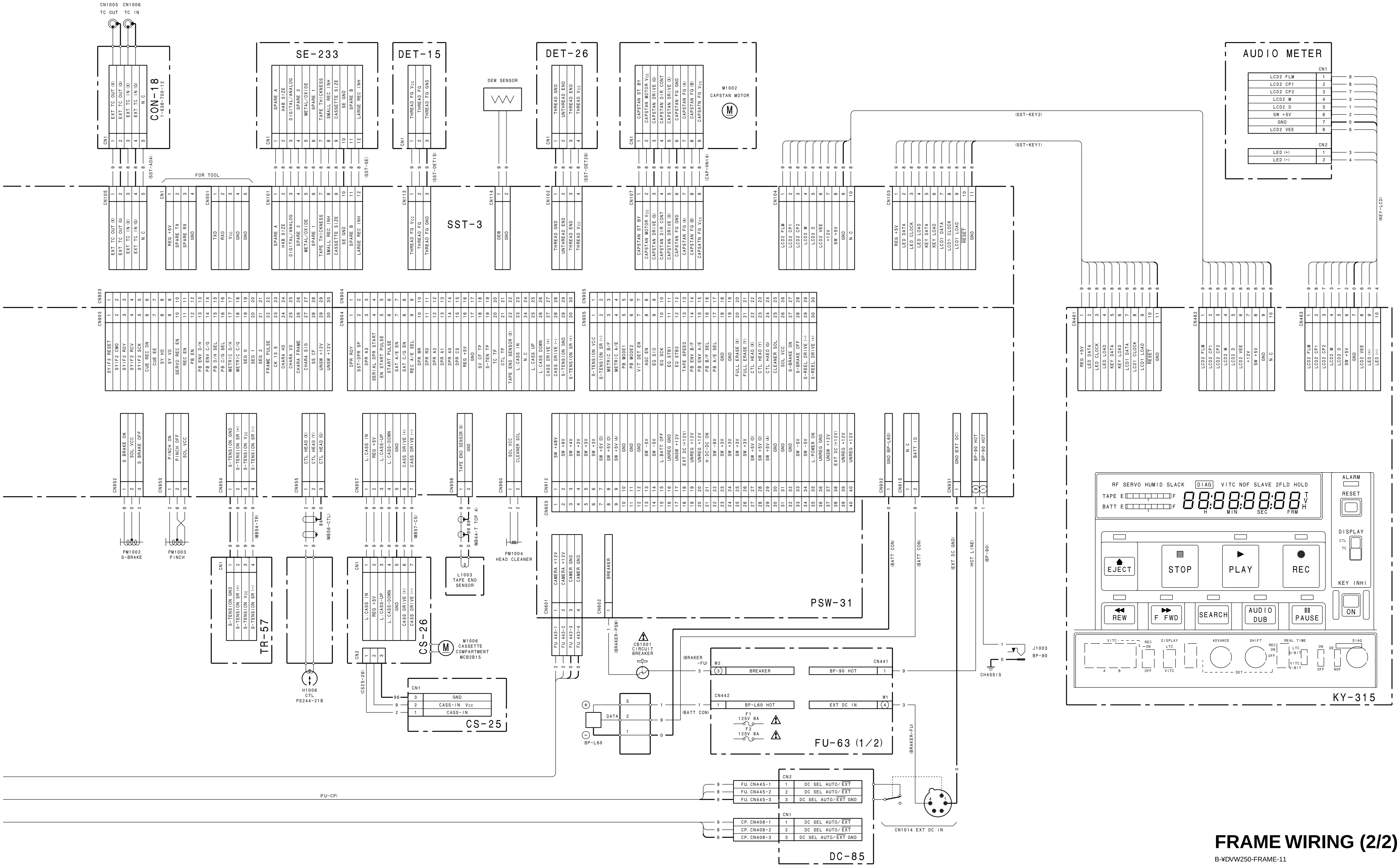
3-3

FRAME WIRING (2/2)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


TO/FROM FRAME (1/2)
DRUM ASSY (2/2)
DR-239 (2/2)
(SST-FU)
M1001
DRUM MOTOR
CN3
CN1010
REMOTE
(TC8-CP18)
(TC5-VR15)
(CAM-CON)
(SST-CP)
(SST-ADA)
CN115
CN106
CN108
CN112
CN109
CN110
CN111
CN901
CN902
CN941
CN942
CN943
CN944
CN946
CN947
CN949
CN956
CN951
(MB-DR1)
MB-601 (2/2)
PM1001
T-BRAKE
M1003
T-REEL
R432276751A
(MB44-T TOP A)
L1001
TAPE TOP
SENSOR
M1004
THREADING
DN20-Q7Z1B
EQ-54 (2/2)
CN304
(EQ-AH)
(MB-AH2)
(MB-AH1)
(MB-FE)
FE-11
FULL ERASE
H1004
M1005
S-REEL
R432276751A
AH-52
CUE
TC
TC ERASE
CUE ERASE
H1003
FU-63 (2/2)
CN446
1 EXT DC LEVEL
2 INT/EXT
3 INT DC LEVEL
4 GND
CN443
CAMERA +12V 1 PSW.601-1
CAMERA +12V 2 PSW.601-2
CAMERA GND 3 PSW.601-3
CAMERA GND 4 PSW.601-4
(CAM-CON)
CN444
CN1011-A 1 CAMERA +12V
CN1011-A 2 CAMERA +12V
CN1011-B 3 CAMERA GND
CN1011-B 4 CAMERA GND
CN445
DC SEL AUTO/EXT 1 DC.CN2-1
DC SEL AUTO/EXT 2 DC.CN2-2
DC SEL AUTO/EXT GND 3 DC.CN2-3
(PSW-FU)
(FU-CP)

FRAME WIRING (2/2)


CN1005 TC OUT
CN1006 TC IN
CON-18
1-638-700-12
SE-233
DET-15
DEW SENSOR
DET-26
M1002 CAPSTAN MOTOR
AUDIO METER
(SST-KEY2)
(SST-KEY1)
(KEY-LCD)
FOR TOOL
SST-3
CN105
CN501
CN101
CN113
CN114
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CN107
CN104
CN103
CN903
CN904
CN905
CN461
CN462
CN463
CN952
CN953
CN954
CN955
CN957
CN958
CN960
CN912
CN932
CN915
CN931
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PM1003 PINCH
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H1006 CTL PS244-21B
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M1006 CASSETTE COMPARTMENT MCB2B15
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PSW-31
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CN602
CB1001 CIRCUIT BREAKER
BP-L60
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CHASSIS
DC-85
CN1014 EXT DC IN
(FU-CP)
RF SERVO HUMID SLACK
DIAG
VITC NDF SLAVE 2FLD HOLD
TAPE
BATT
ALARM
RESET
DISPLAY
KEY INHI
EJECT
STOP
PLAY
REC
REW
F FWD
SEARCH
AUDIO DUB
PAUSE
ON
KY-315

FRAME WIRING (2/2)

B-¥DVW250-FRAME-11

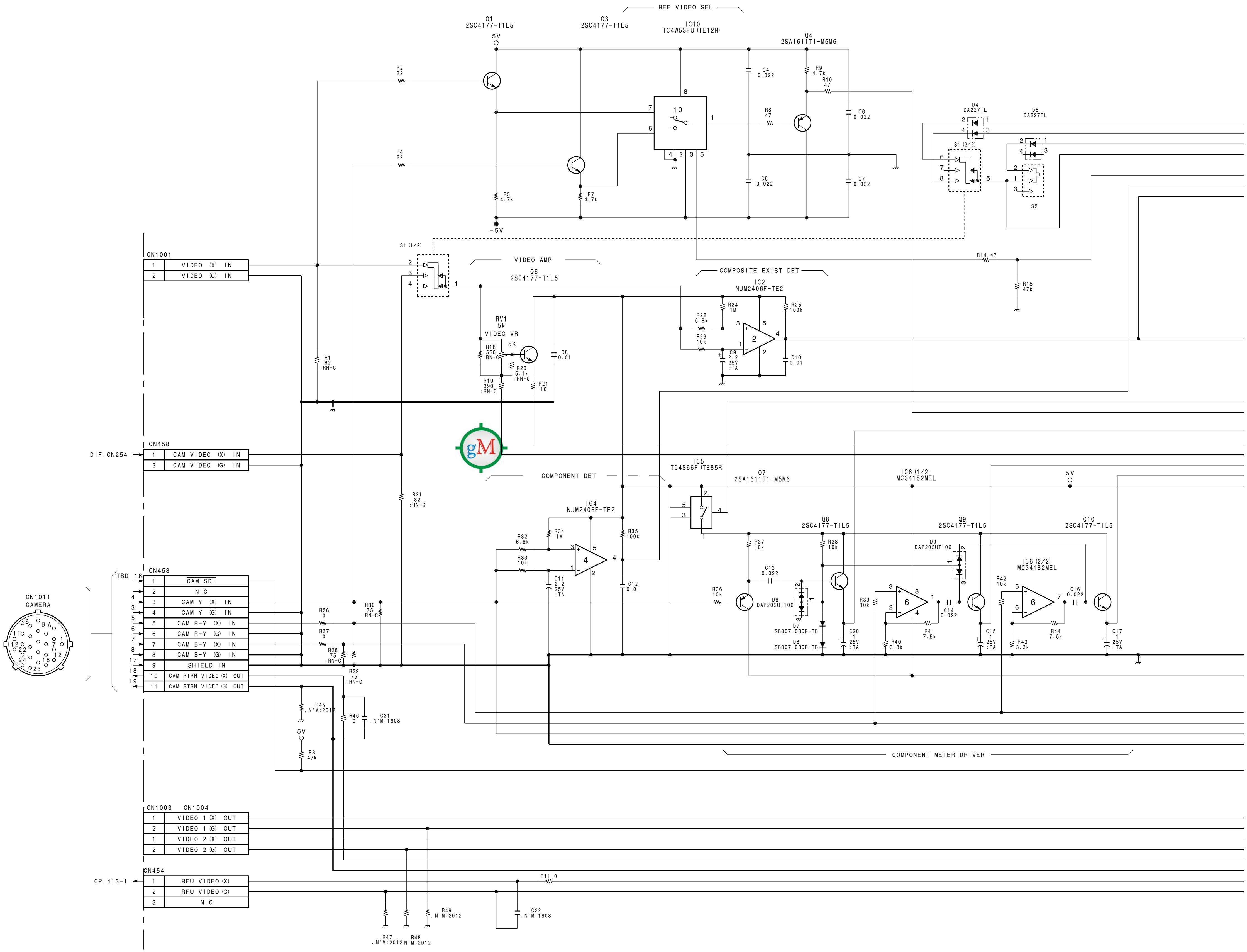
3-5

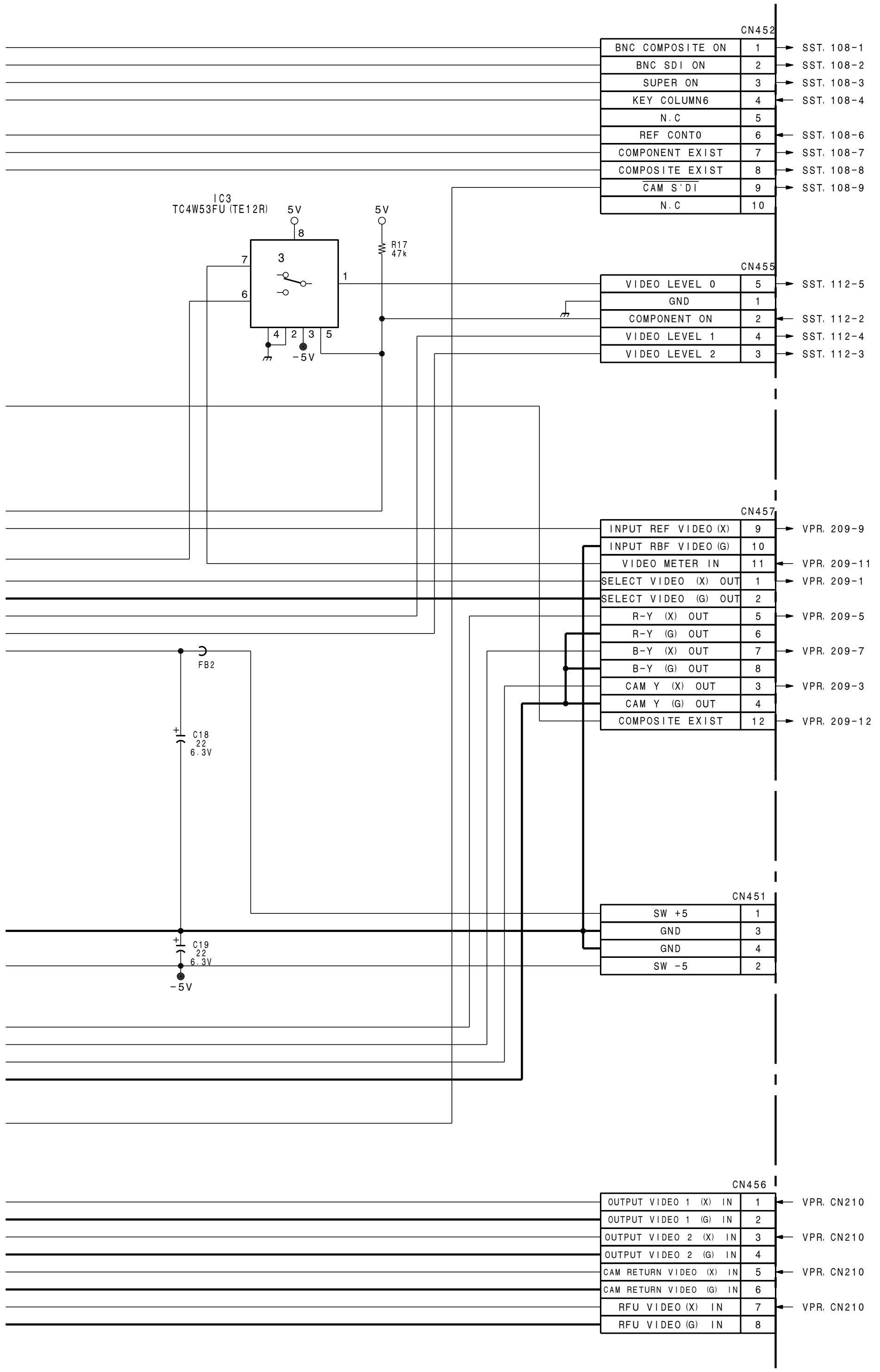
DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

CC-66 (1-657-811-11)

CN451	A1
CN452	E2
CN453	C1
CN454	A2
CN455	E1
CN456	B2
CN457	A2
CN458	D1
D4	E2
D5	A2
D6	D1
D7	D1
D8	D1
D9	C2
FB2	A1
IC2	E1
IC3	E1
IC4	E1
IC5	D1
IC6	D2
IC10	A1
Q1	*E2
Q3	*C1
Q4	*A1
Q6	E1
Q7	D1
Q8	D1
Q9	D2
Q10	D2
S1	*E1
S2	*A2

* : Soldering Side


REF VIDEO SEL
Q1 2SC4177-T1L5
Q3 2SC4177-T1L5
IC10 TC4W53FU (TE12R)
Q4 2SA1611T1-M5M6
D4 DA227TL
D5 DA227TL
S1 (2/2)
S2
S1 (1/2)
VIDEO AMP
Q6 2SC4177-T1L5
COMPOSITE EXIST DET
IC2 NJM2406F-TE2
RV1 5k VIDEO VR
CN1001
VIDEO (X) IN
VIDEO (G) IN
CN458
DIF. CN254
CAM VIDEO (X) IN
CAM VIDEO (G) IN
COMPONENT DET
IC5 TC4S66F (TE85R)
Q7 2SA1611T1-M5M6
IC6 (1/2) MC34182MEL
IC4 NJM2406F-TE2
Q8 2SC4177-T1L5
Q9 2SC4177-T1L5
Q10 2SC4177-T1L5
D9 DAP202UT106
D6 DAP202UT106
D7 SB007-03CP-TB
D8 SB007-03CP-TB
IC6 (2/2) MC34182MEL
CN1011 CAMERA
TBD
CN453
CAM SDI
N.C
CAM Y (X) IN
CAM Y (G) IN
CAM R-Y (X) IN
CAM R-Y (G) IN
CAM B-Y (X) IN
CAM B-Y (G) IN
SHIELD IN
CAM RTRN VIDEO (X) OUT
CAM RTRN VIDEO (G) OUT
COMPONENT METER DRIVER
CN1003 CN1004
VIDEO 1 (X) OUT
VIDEO 1 (G) OUT
VIDEO 2 (X) OUT
VIDEO 2 (G) OUT
CN454
CP. 413-1
RFU VIDEO (X)
RFU VIDEO (G)
N.C
5V
-5V
1
2
3
4
5
A
B
C
D
E
F
G
H


CN452
BNC COMPOSITE ON 1 SST. 108-1
BNC SDI ON 2 SST. 108-2
SUPER ON 3 SST. 108-3
KEY COLUMN6 4 SST. 108-4
N.C 5
REF CONT0 6 SST. 108-6
COMPONENT EXIST 7 SST. 108-7
COMPOSITE EXIST 8 SST. 108-8
CAM S'DI 9 SST. 108-9
N.C 10
IC3
TC4W53FU(TE12R)
5V
5V
R17
47k
-5V
CN455
VIDEO LEVEL 0 5 SST. 112-5
GND 1
COMPONENT ON 2 SST. 112-2
VIDEO LEVEL 1 4 SST. 112-4
VIDEO LEVEL 2 3 SST. 112-3
CN457
INPUT REF VIDEO(X) 9 VPR. 209-9
INPUT RBF VIDEO(G) 10
VIDEO METER IN 11 VPR. 209-11
SELECT VIDEO (X) OUT 1 VPR. 209-1
SELECT VIDEO (G) OUT 2
R-Y (X) OUT 5 VPR. 209-5
R-Y (G) OUT 6
B-Y (X) OUT 7 VPR. 209-7
B-Y (G) OUT 8
CAM Y (X) OUT 3 VPR. 209-3
CAM Y (G) OUT 4
COMPOSITE EXIST 12 VPR. 209-12
FB2
C18
22
6.3V
CN451
SW +5 1
GND 3
GND 4
SW -5 2
C19
22
6.3V
-5V
CN456
OUTPUT VIDEO 1 (X) IN 1 VPR. CN210
OUTPUT VIDEO 1 (G) IN 2
OUTPUT VIDEO 2 (X) IN 3 VPR. CN210
OUTPUT VIDEO 2 (G) IN 4
CAM RETURN VIDEO (X) IN 5 VPR. CN210
CAM RETURN VIDEO (G) IN 6
RFU VIDEO(X) IN 7 VPR. CN210
RFU VIDEO(G) IN 8

VIDEO INPUT/OUTPUT

CC-66

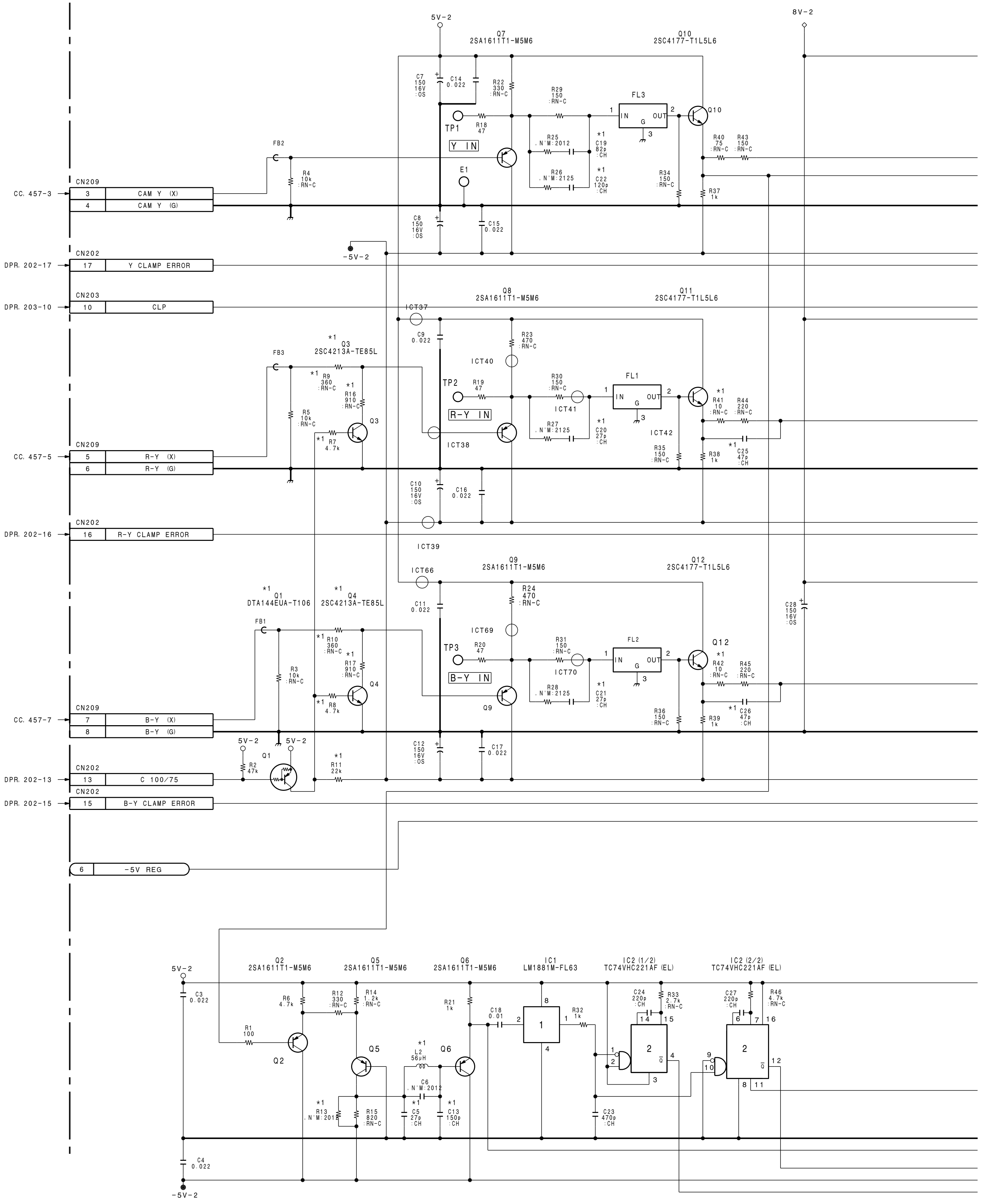
BOARD NO. 1-657-811-11
LOT NO. 409-
B-¥DVW250-CC66-11

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

VPR-12A (1-657-805-11)

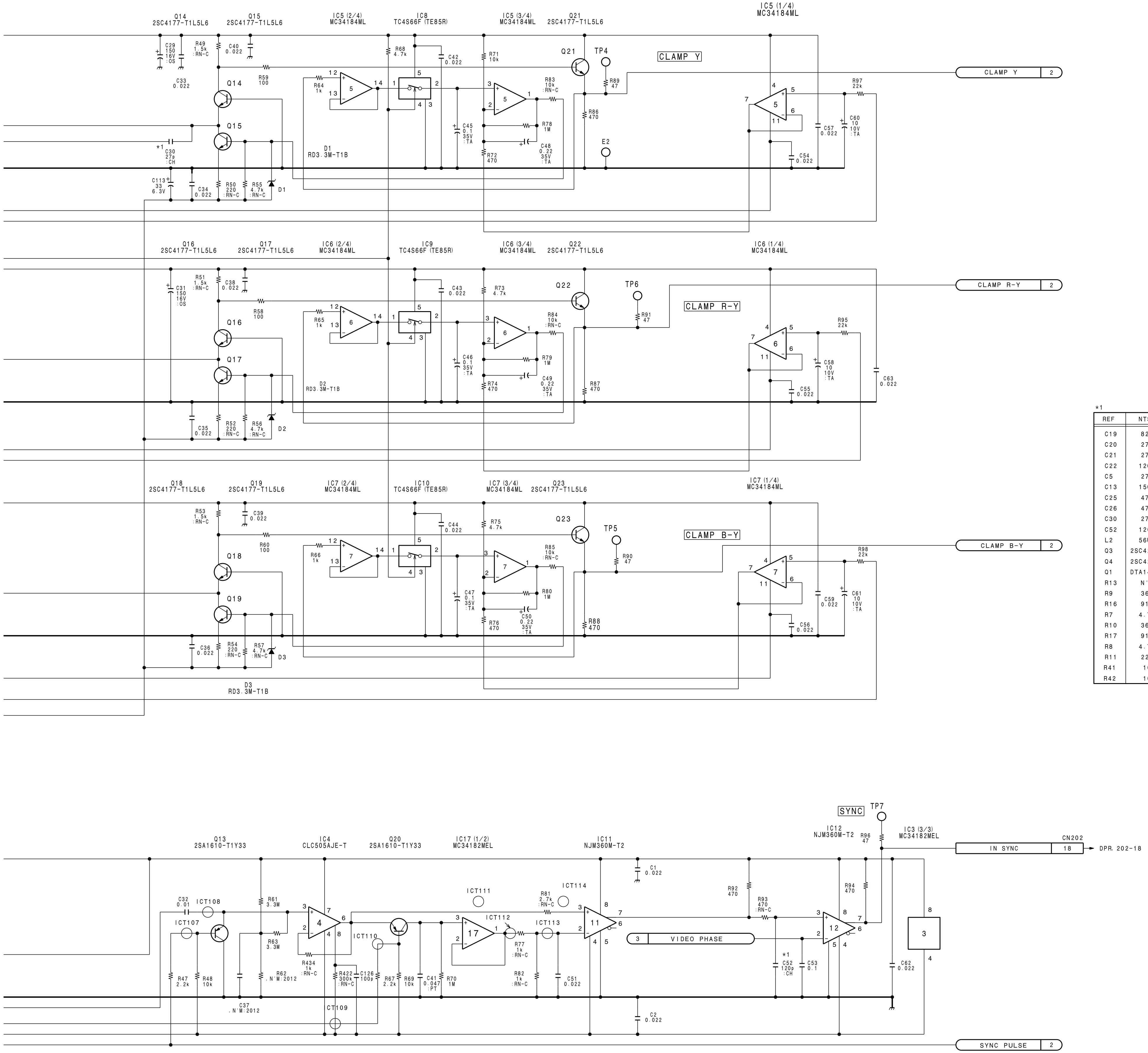
CN201	*B6	IC29	C5	L200	F2	RV500	K3
CN202	*D6	IC30	*D5	L201	E1		
CN203	*F6	IC31	C5	L500	J4	TP1	H3
CN204	*H6	IC32	D5	L501	J4	TP2	H3
CN209	K2	IC33	D5	L502	K4	TP3	H4
CN210	K3	IC34	E5	L503	J3	TP4	F2
		IC36	E3	L504	J3	TP5	F4
CP200	A2	IC37	E5	L700	H6	TP6	F3
		IC38	*F5	L701	D6	TP7	F5
D1	*F3	IC40	E3	L702	C6	TP200	J2
D2	*F4	IC41	D2	L703	F6	TP201	F2
D3	*F4	IC42	C2	L704	E6	TP202	H1
D4	*E5	IC43	C3			TP203	E2
D5	D4	IC44	E4	Q1	*H4	TP204	C3
D10	F1	IC45	E3	Q2	*G5	TP205	C3
D200	*B5	IC200	B5	Q3	*H4	TP206	C4
D201	*C5	IC201	A5	Q4	*H4	TP207	A1
D202	*B5	IC202	B5	Q5	*G5	TP208	E2
D203	*G2	IC203	B5	Q6	G6	TP500	J4
D204	*A1	IC204	B5	Q7	*H2	TP501	J3
D206	*A2	IC205	B5	Q8	*H3	TP502	K3
D207	*D2	IC206	J1	Q9	*H4		
D500	*H5	IC207	G2	Q10	*F2		
D700	J2	IC208	G1	Q11	*F3		
D701	G5	IC209	C1	Q12	*F4		
D702	H2	IC210	F2	Q13	G6		
D703	*K1	IC211	E1	Q14	*F3		
D704	*K5	IC212	H1	Q15	*F3		
		IC213	D1	Q16	*F3		
E1	H3	IC214	G1	Q17	*F3		
E2	E4	IC215	J1	Q18	*F4		
E3	B5	IC216	H1	Q19	*F4		
E200	F2	IC217	D1	Q20	*G5		
E201	F1	IC218	G1	Q21	*F3		
E202	B2	IC219	F1	Q22	*F3		
E203	C2	IC220	D1	Q23	*F4		
E204	A3	IC221	F2	Q24	D5		
E205	C4	IC222	C2	Q25	*E3		
E500	H5	IC223	E2	Q26	*E3		
E501	J3	IC224	C1	Q27	*E4		
		IC225	B2	Q28	*E4		
FB1	J2	IC226	B1	Q29	*E2		
FB2	J2	IC227	E2	Q30	*E3		
FB3	J2	IC228	H5	Q200	*J2		
FB200	J2	IC229	E2	Q201	*J2		
FB201	A2	IC230	B2	Q202	*J2		
FB202	A1	IC231	A2	Q203	*H2		
		IC232	D2	Q204	*F2		
FL1	G3	IC233	B1	Q205	*G2		
FL2	G4	IC234	C2	Q206	*G2		
FL3	G3	IC235	A1	Q207	*E2		
FL200	H2	IC236	A1	Q208	*G2		
FL500	K4	IC237	*B2	Q209	*F2		
		IC238	B2	Q210	*E1		
IC1	G6	IC239	A4	Q211	*D1		
IC2	*G6	IC240	B4	Q212	*D1		
IC3	G5	IC241	A3	Q213	*B1		
IC4	F6	IC242	A4	Q214	*B1		
IC5	F3	IC243	B4	Q215	A4		
IC6	F4	IC244	A3	Q216	*E2		
IC7	F5	IC245	A5	Q217	*E2		
IC8	F3	IC246	A5	Q500	*J5		
IC9	F3	IC247	A5	Q501	*J5		
IC10	F4	IC248	*G1	Q502	J3		
IC11	F5	IC249	*D2	Q700	G5		
IC12	F5	IC500	H6	Q701	G5		
IC13	*F5	IC501	J6	Q702	*D4		
IC14	E4	IC502	H6	Q703	*D3		
IC15	E3	IC503	H5	Q704	*H2		
IC16	E5	IC504	H5	Q705	J1		
IC17	F6	IC505	K5	Q706	J1		
IC18	E3	IC506	J5	Q707	D3		
IC19	E4	IC507	J4	Q708	D3		
IC21	F5	IC508	J4	Q709	*H2		
IC22	C3	IC509	J4	Q710	*J5		
IC23	C4	IC510	J3	Q711	*K5		
IC24	C4	IC511	J3	Q712	J5		
IC25	F5	IC700	D6				
IC26	C3	IC701	E5	RV200	K1		
IC27	C4			RV201	C1		
IC28	C4	L2	G6	RV202	F1		

* : Soldering Side



5V-2
8V-2
-5V-2
Q7 2SA1611T1-M5M6
Q10 2SC4177-T1L5L6
Q8 2SA1611T1-M5M6
Q11 2SC4177-T1L5L6
Q9 2SA1611T1-M5M6
Q12 2SC4177-T1L5L6
*1 Q3 2SC4213A-TE85L
*1 Q1 DTA144EUA-T106
*1 Q4 2SC4213A-TE85L
Q2 2SA1611T1-M5M6
Q5 2SA1611T1-M5M6
Q6 2SA1611T1-M5M6
IC1 LM1881M-FL63
IC2 (1/2) TC74VHC221AF (EL)
IC2 (2/2) TC74VHC221AF (EL)
CC. 457-3
CC. 457-5
CC. 457-7
DPR. 202-17
DPR. 203-10
DPR. 202-16
DPR. 202-13
DPR. 202-15
CN209
3 CAM Y (X)
4 CAM Y (G)
CN202
17 Y CLAMP ERROR
CN203
10 CLP
5 R-Y (X)
6 R-Y (G)
16 R-Y CLAMP ERROR
7 B-Y (X)
8 B-Y (G)
13 C 100/75
15 B-Y CLAMP ERROR
6 -5V REG
TP1
Y IN
TP2
R-Y IN
TP3
B-Y IN
E1
FL1
FL2
FL3
FB1
FB2
FB3
ICT37
ICT38
ICT39
ICT40
ICT41
ICT42
ICT66
ICT69
ICT70
C7 150 16V :OS
C14 0.022
R22 330 :RN-C
R29 150 :RN-C
R18 47
R25 , N'M:2012
R26 , N'M:2125
*1 C19 82p :CH
*1 C22 120p :CH
R4 10k :RN-C
C8 150 16V :OS
C15 0.022
R34 150 :RN-C
R37 1k
R40 75 :RN-C
R43 150 :RN-C
C9 0.022
R23 470 :RN-C
R19 47
R30 150 :RN-C
R27 , N'M:2125
*1 C20 27p :CH
*1 R9 360 :RN-C
*1 R16 910 :RN-C
R5 10k :RN-C
*1 R7 4.7k
C10 150 16V :OS
C16 0.022
R35 150 :RN-C
R38 1k
*1 R41 10 :RN-C
R44 220 :RN-C
*1 C25 47p :CH
C11 0.022
R24 470 :RN-C
R20 47
R31 150 :RN-C
R28 , N'M:2125
*1 C21 27p :CH
*1 R10 360 :RN-C
*1 R17 910 :RN-C
R3 10k :RN-C
*1 R8 4.7k
C12 150 16V :OS
C17 0.022
R36 150 :RN-C
R39 1k
*1 R42 10 :RN-C
R45 220 :RN-C
*1 C26 47p :CH
C28 150 16V :OS
R2 47k
*1 R11 22k
C3 0.022
C4 0.022
R1 100
R6 4.7k
R12 330 :RN-C
R14 1.2k :RN-C
*1 R13 , N'M:2012
R15 820 :RN-C
*1 L2 56μH
C6 , N'M:2012
*1 C5 27p :CH
*1 C13 150p :CH
R21 1k
C18 0.01
R32 1k
C23 470p :CH
C24 220p :CH
R33 2.7k :RN-C
C27 220p :CH
R46 4.7k :RN-C

VPR-12 (1/6)


Q14 2SC4177-T1L5L6
Q15 2SC4177-T1L5L6
IC5 (2/4) MC34184ML
IC8 TC4S66F (TE85R)
IC5 (3/4) MC34184ML
Q21 2SC4177-T1L5L6
IC5 (1/4) MC34184ML
TP4
E2
CLAMP Y
D1 RD3.3M-T1B
Q16 2SC4177-T1L5L6
Q17 2SC4177-T1L5L6
IC6 (2/4) MC34184ML
IC9 TC4S66F (TE85R)
IC6 (3/4) MC34184ML
Q22 2SC4177-T1L5L6
IC6 (1/4) MC34184ML
TP6
CLAMP R-Y
D2 RD3.3M-T1B
Q18 2SC4177-T1L5L6
Q19 2SC4177-T1L5L6
IC7 (2/4) MC34184ML
IC10 TC4S66F (TE85R)
IC7 (3/4) MC34184ML
Q23 2SC4177-T1L5L6
IC7 (1/4) MC34184ML
TP5
CLAMP B-Y
D3 RD3.3M-T1B
Q13 2SA1610-T1Y33
IC4 CLC505AJE-T
Q20 2SA1610-T1Y33
IC17 (1/2) MC34182MEL
IC11 NJM360M-T2
IC12 NJM360M-T2
IC3 (3/3) MC34182MEL
SYNC
TP7
VIDEO PHASE
IN SYNC
CN202
DPR. 202-18
SYNC PULSE
CLAMP Y
CLAMP R-Y
CLAMP B-Y

*1

REF	NTSC	PAL
C19	82P	47P
C20	27P	22P
C21	27P	22P
C22	120P	100P
C5	27P	47P
C13	150P	220P
C25	47P	33P
C26	47P	33P
C30	27P	33P
C52	120P	150P
L2	56UH	82UH
Q3	2SC4213A	N'M
Q4	2SC4213A	N'M
Q1	DTA144EU	N'M
R13	N'M	15K
R9	360	0
R16	910	N'M
R7	4.7K	N'M
R10	360	0
R17	910	N'M
R8	4.7K	N'M
R11	22K	N'M
R41	10	0
R42	10	0

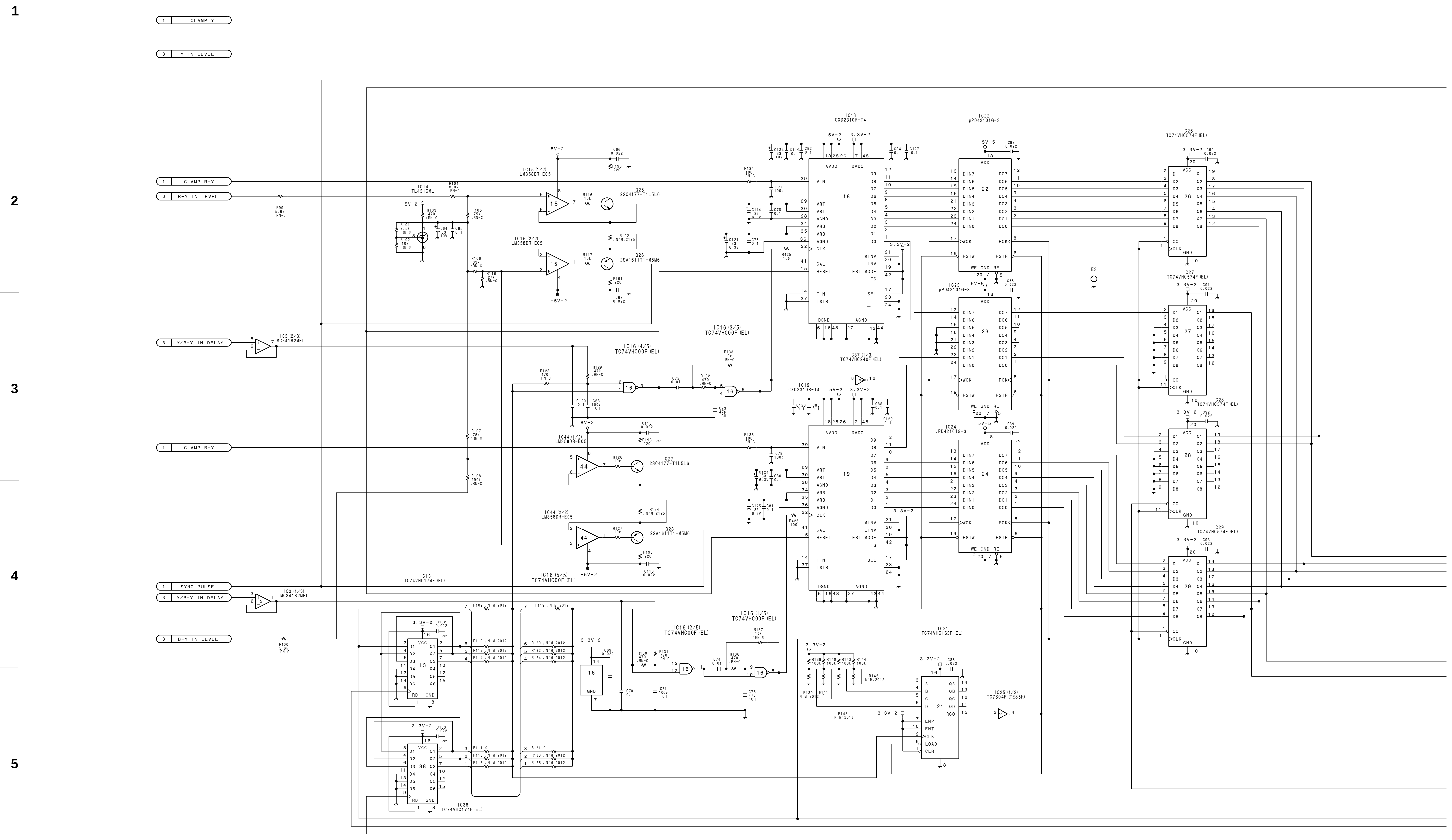
VIDEO SIGNAL PROCESSOR (AD/DA)

VPR-12 (1/6)

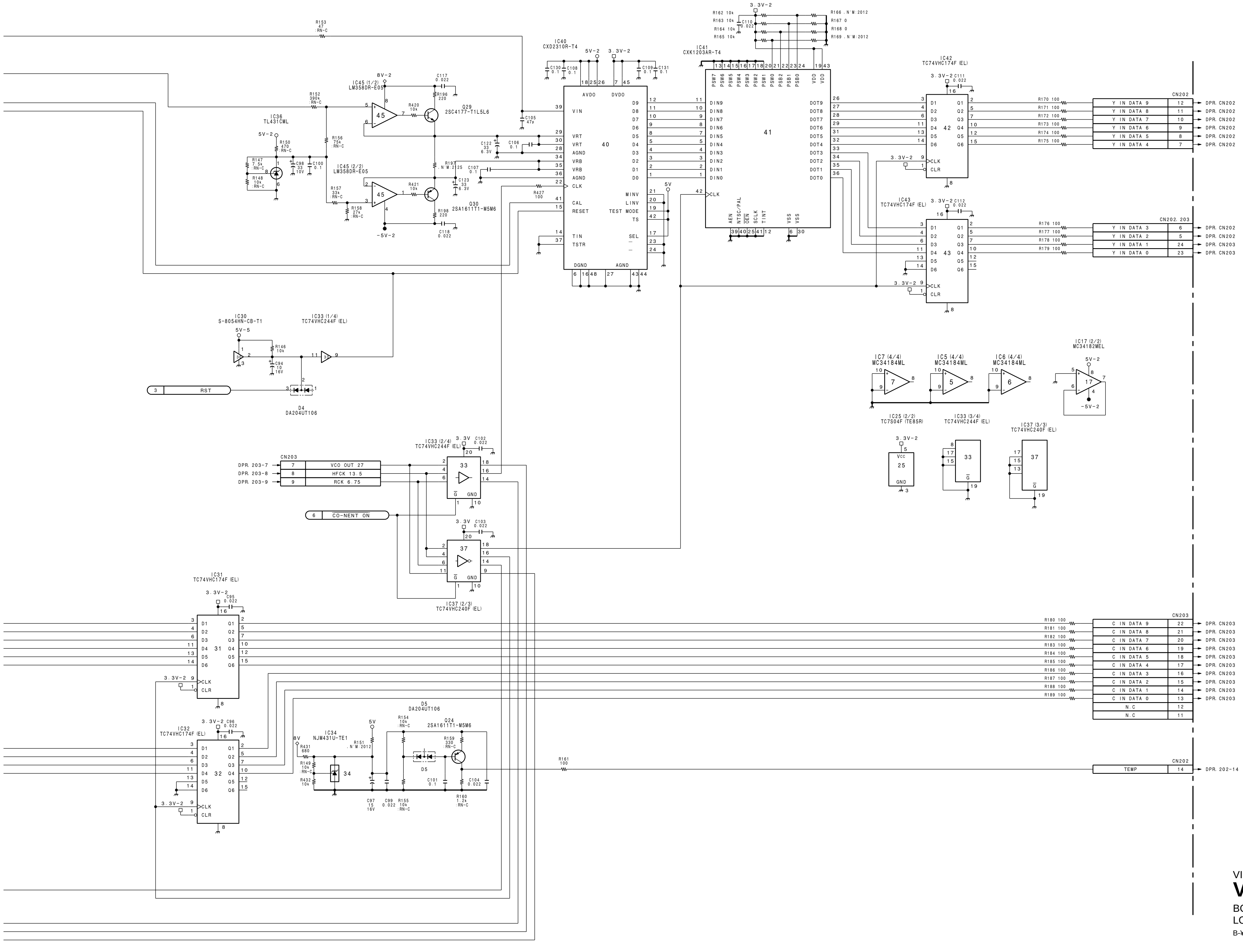
BOARD NO. 1-657-805-11
LOT NO. 409-
B-¥DVW250-VPR12-11-S/M

3-9

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


1
2
3
4
5
1 CLAMP Y
3 Y IN LEVEL
1 CLAMP R-Y
3 R-Y IN LEVEL
3 Y/R-Y IN DELAY
1 CLAMP B-Y
1 SYNC PULSE
3 Y/B-Y IN DELAY
3 B-Y IN LEVEL
IC14 TL431CML
IC15 (1/2) LM358DR-E05
IC15 (2/2) LM358DR-E05
Q25 2SC4177-T1L5L6
Q26 2SA1611T1-M5M6
IC3 (2/3) MC34182MEL
IC16 (4/5) TC74VHC00F (EL)
IC16 (3/5) TC74VHC00F (EL)
IC44 (1/2) LM358DR-E05
IC44 (2/2) LM358DR-E05
Q27 2SC4177-T1L5L6
Q28 2SA1611T1-M5M6
IC13 TC74VHC174F (EL)
IC16 (5/5) TC74VHC00F (EL)
IC3 (1/3) MC34182MEL
IC16 (2/5) TC74VHC00F (EL)
IC16 (1/5) TC74VHC00F (EL)
IC38 TC74VHC174F (EL)
IC18 CXD2310R-T4
IC19 CXD2310R-T4
IC22 μPD42101G-3
IC23 μPD42101G-3
IC24 μPD42101G-3
IC37 (1/3) TC74VHC240F (EL)
IC21 TC74VHC163F (EL)
IC25 (1/2) TC7S04F (TE85R)
IC26 TC74VHC574F (EL)
IC27 TC74VHC574F (EL)
IC28 TC74VHC574F (EL)
IC29 TC74VHC574F (EL)
E3
8V-2
5V-2
-5V-2
3.3V-2
5V-5
A
B
C
D
E
F
G
H

http://getMANUAL.com

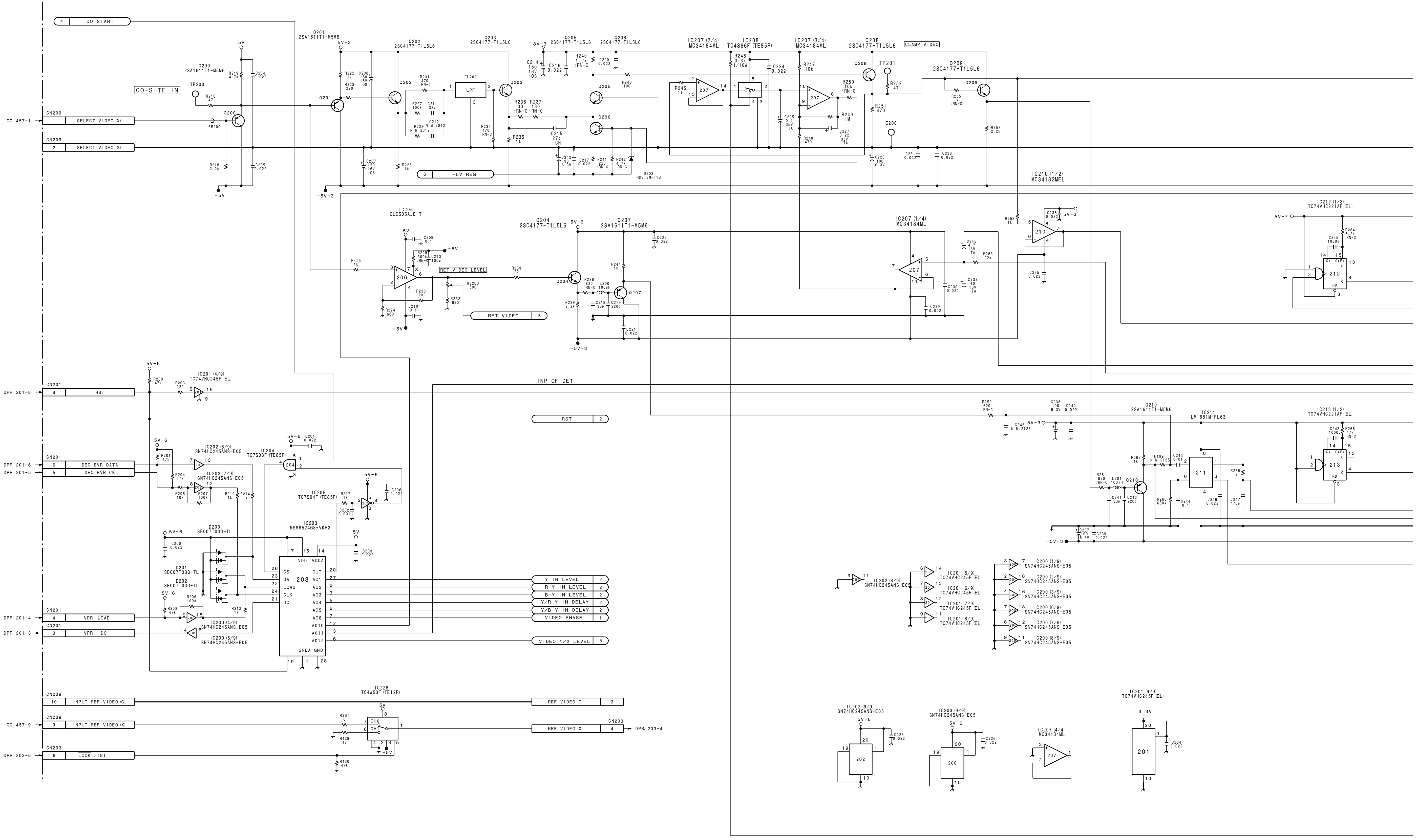

IC40
CXD2310R-T4
IC41
CXK1203AR-T4
IC42
TC74VHC174F (EL)
IC43
TC74VHC174F (EL)
IC45 (1/2)
LM358DR-E05
IC45 (2/2)
LM358DR-E05
IC36
TL431CML
Q29
2SC4177-T1L5L6
Q30
2SA1611T1-M5M6
IC30
S-8054HN-CB-T1
IC33 (1/4)
TC74VHC244F (EL)
D4
DA204UT106
IC33 (2/4)
TC74VHC244F (EL)
IC37 (2/3)
TC74VHC240F (EL)
CN203
VCO OUT 27
HFCK 13.5
RCK 6.75
CO-NENT ON
RST
IC7 (4/4)
MC34184ML
IC5 (4/4)
MC34184ML
IC6 (4/4)
MC34184ML
IC17 (2/2)
MC34182MEL
IC25 (2/2)
TC7S04F (TE85R)
IC33 (3/4)
TC74VHC244F (EL)
IC37 (3/3)
TC74VHC240F (EL)
IC31
TC74VHC174F (EL)
IC32
TC74VHC174F (EL)
IC34
NJM431U-TE1
D5
DA204UT106
Q24
2SA1611T1-M5M6
CN202
Y IN DATA 9
Y IN DATA 8
Y IN DATA 7
Y IN DATA 6
Y IN DATA 5
Y IN DATA 4
CN202, 203
Y IN DATA 3
Y IN DATA 2
Y IN DATA 1
Y IN DATA 0
C IN DATA 9
C IN DATA 8
C IN DATA 7
C IN DATA 6
C IN DATA 5
C IN DATA 4
C IN DATA 3
C IN DATA 2
C IN DATA 1
C IN DATA 0
N.C
TEMP
DPR. CN202
DPR. CN203
DPR. 202-14
8V-2
5V-2
3.3V-2
-5V-2
5V-5
1
2
3
4
5

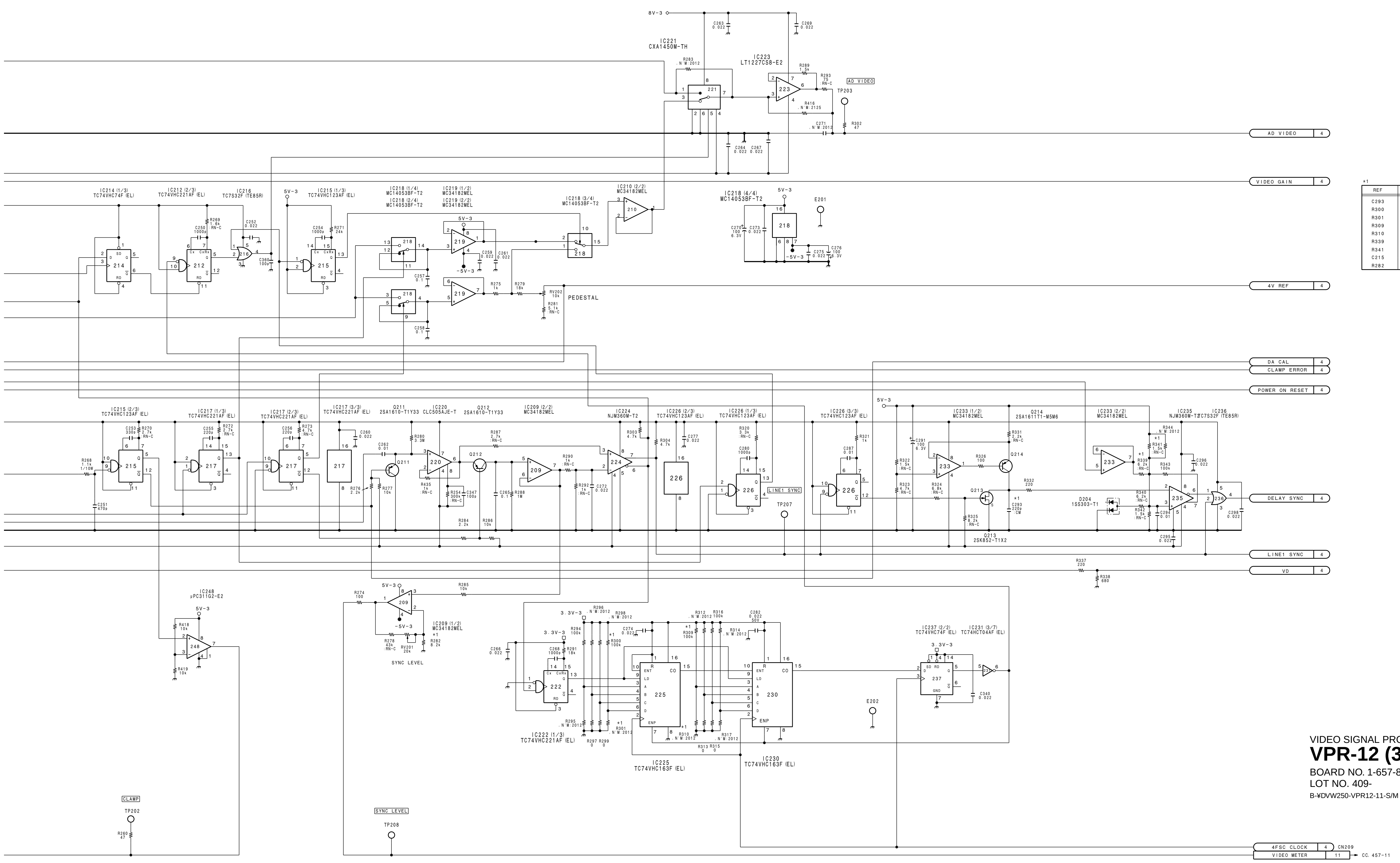
VIDEO SIGNAL PROCESSOR (AD/DA)

VPR-12 (2/6)

BOARD NO. 1-657-805-11
LOT NO. 409-
B-¥DVW250-VPR12-11-S/M

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


DO START
CN209
SELECT VIDEO (X)
SELECT VIDEO (G)
CC. 457-1
CO-SITE IN
TP200
FB200
Q200
2SA1611T1-M5M6
Q201
2SA1611T1-M5M6
Q202
2SC4177-T1L5L6
Q203
2SC4177-T1L5L6
Q205
2SC4177-T1L5L6
Q206
2SC4177-T1L5L6
FL200
LPF
-5V REG
D203
RD3.3M-T1B
IC207 (2/4)
MC34184ML
IC208
TC4S66F (TE85R)
IC207 (3/4)
MC34184ML
Q208
2SC4177-T1L5L6
CLAMP VIDEO
TP201
E200
Q209
2SC4177-T1L5L6
IC210 (1/2)
MC34182MEL
IC212 (1/3)
TC74VHC221AF (EL)
IC206
CLC505AJE-T
RET VIDEO LEVEL
RV200
500
RET VIDEO
Q204
2SC4177-T1L5L6
Q207
2SA1611T1-M5M6
L200
100μH
IC207 (1/4)
MC34184ML
CN201
RST
DPR. 201-8
IC201 (4/9)
TC74VHC245F (EL)
INP CF DET
DEC EVR DATA
DEC EVR CK
DPR. 201-6
DPR. 201-5
IC202 (6/9)
SN74HC245ANS-E05
IC202 (7/9)
SN74HC245ANS-E05
IC204
TC7S08F (TE85R)
IC205
TC7S04F (TE85R)
IC203
MSM6524GS-VKR2
D200
SB007T03Q-TL
D201
SB007T03Q-TL
D202
SB007T03Q-TL
VPR LOAD
VPR DO
DPR. 201-4
DPR. 201-3
IC200 (4/9)
SN74HC245ANS-E05
IC200 (5/9)
SN74HC245ANS-E05
Y IN LEVEL
R-Y IN LEVEL
B-Y IN LEVEL
Y/R-Y IN DELAY
Y/B-Y IN DELAY
VIDEO PHASE
VIDEO 1/2 LEVEL
Q210
2SA1611T1-M5M6
IC211
LM1881M-FL63
IC213 (1/2)
TC74VHC221AF (EL)
L201
100μH
IC202 (8/9)
SN74HC245ANS-E05
IC201 (5/9)
TC74VHC245F (EL)
IC201 (6/9)
TC74VHC245F (EL)
IC201 (7/9)
TC74VHC245F (EL)
IC201 (8/9)
TC74VHC245F (EL)
IC200 (1/9)
SN74HC245ANS-E05
IC200 (2/9)
SN74HC245ANS-E05
IC200 (3/9)
SN74HC245ANS-E05
IC200 (6/9)
SN74HC245ANS-E05
IC200 (7/9)
SN74HC245ANS-E05
IC200 (8/9)
SN74HC245ANS-E05
INPUT REF VIDEO (G)
INPUT REF VIDEO (X)
CC. 457-9
IC228
TC4W53F (TE12R)
REF VIDEO (G)
REF VIDEO (X)
CN203
DPR. 203-4
LOCK /INT
DPR. 203-6
IC202 (9/9)
SN74HC245ANS-E05
IC200 (9/9)
SN74HC245ANS-E05
IC207 (4/4)
MC34184ML
IC201 (9/9)
TC74VHC245F (EL)
5V-6
5V-3
-5V-3
8V-3
5V-7
3.3V
-5V
5V


8V-3
C263 0.022
C269 0.022
IC221 CXA1450M-TH
R283 ,N'M:2012
221
IC223 LT1227CS8-E2
R289 1.5k
223
R293 75 :RN-C
AD VIDEO
TP203
R416 ,N'M:2125
C271 ,N'M:2012
R302 47
C264 0.022
C267 0.022
AD VIDEO 4
VIDEO GAIN 4
IC214 (1/3) TC74VHC74F (EL)
214
IC212 (2/3) TC74VHC221AF (EL)
212
R269 1.6k :RN-C
C250 1000p
IC216 TC7S32F (TE85R)
216
C252 0.022
C360 100p
5V-3
IC215 (1/3) TC74VHC123AF (EL)
215
C254 1000p
R271 24k
IC218 (1/4) MC14053BF-T2
IC218 (2/4) MC14053BF-T2
218
C257 0.1
C258 0.1
IC219 (1/2) MC34182MEL
IC219 (2/2) MC34182MEL
219
-5V-3
C259 0.022
C261 0.022
R275 1k
R279 18k
RV202 10k
R281 5.1k :RN-C
PEDESTAL
IC218 (3/4) MC14053BF-T2
IC210 (2/2) MC34182MEL
210
IC218 (4/4) MC14053BF-T2
C270 100 6.3V
C273 0.022
C275 0.022
C276 100 6.3V
E201
4V REF 4
DA CAL 4
CLAMP ERROR 4
POWER ON RESET 4
IC215 (2/3) TC74VHC123AF (EL)
R268 1.1k 1/10W
C251 470p
C253 330p
R270 2.7k :RN-C
IC217 (1/3) TC74VHC221AF (EL)
217
C255 220p
R272 2.7k :RN-C
IC217 (2/3) TC74VHC221AF (EL)
C256 220p
R273 4.7k :RN-C
IC217 (3/3) TC74VHC221AF (EL)
C260 0.022
Q211 2SA1610-T1Y33
C262 0.01
R276 2.2k
R277 10k
IC220 CLC505AJE-T
220
R280 3.3M
R435 1k :RN-C
R254 300k :RN-C
C347 100p
Q212 2SA1610-T1Y33
R284 2.2k
R286 10k
R287 2.7k :RN-C
IC209 (2/2) MC34182MEL
209
C265 0.1
R288 1M
R290 1k :RN-C
R292 1k :RN-C
C272 0.022
IC224 NJM360M-T2
224
R303 4.7k
R304 4.7k
IC226 (2/3) TC74VHC123AF (EL)
226
C277 0.022
IC226 (1/3) TC74VHC123AF (EL)
R320 3.3k :RN-C
C280 1000p
LINE1 SYNC
TP207
IC226 (3/3) TC74VHC123AF (EL)
R321 1k
C287 0.01
5V-3
R322 1.5k :RN-C
R323 4.7k :RN-C
C291 100 6.3V
IC233 (1/2) MC34182MEL
233
R324 6.8k :RN-C
R325 8.2k :RN-C
R326 100
Q213
Q213 2SK852-T1X2
Q214 2SA1611T1-M5M6
R331 2.2k :RN-C
*1
C293 220p :CM
R332 220
D204 1SS303-T1
IC233 (2/2) MC34182MEL
R339 6.2k :RN-C
R340 6.2k :RN-C
R341 1.5k :RN-C
R342 1.5k :RN-C
R343 100k
R344 ,N'M:2012
C294 0.01
C295 0.022
C296 0.022
IC235 NJM360M-T2
235
IC236 TC7S32F (TE85R)
236
C298 0.022
DELAY SYNC 4
LINE1 SYNC 4
R337 220
R338 680
VD 4
IC248 μPC311G2-E2
248
R418 10k
R419 10k
5V-3
R274 100
IC209 (1/2) MC34182MEL
R285 10k
R278 43k :RN-C
RV201 20k
R282 8.2k
SYNC LEVEL
3.3V-3
C266 0.022
C268 1000p
R291 18k
IC222 (1/3) TC74VHC221AF (EL)
222
R294 100k
R295 ,N'M:2012
R296 ,N'M:2012
R297 0
R298 ,N'M:2012
R299 0
R300 100k
R301 ,N'M:2012
C274 0.022
IC225 TC74VHC163F (EL)
225
R309 100k
R310 ,N'M:2012
R312 ,N'M:2012
R313 0
R314 ,N'M:2012
R315 0
R316 100k
R317 ,N'M:2012
C282 0.022 50V
IC230 TC74VHC163F (EL)
230
E202
IC237 (2/2) TC74VHC74F (EL)
237
IC231 (3/7) TC74HCT04AF (EL)
231
C340 0.022
CLAMP
TP202
R260 47
SYNC LEVEL
TP208
4FSC CLOCK 4
VIDEO METER 11
CN209
CC. 457-11

*1

REF	NTSC	PAL
C293	220P	150P
R300	100K	N'M
R301	N'M	0
R309	100K	N'M
R310	N'M	0
R339	6.2K	5.6K
R341	1.5K	1.8K
C215	27P	39P
R282	8.2K	10K

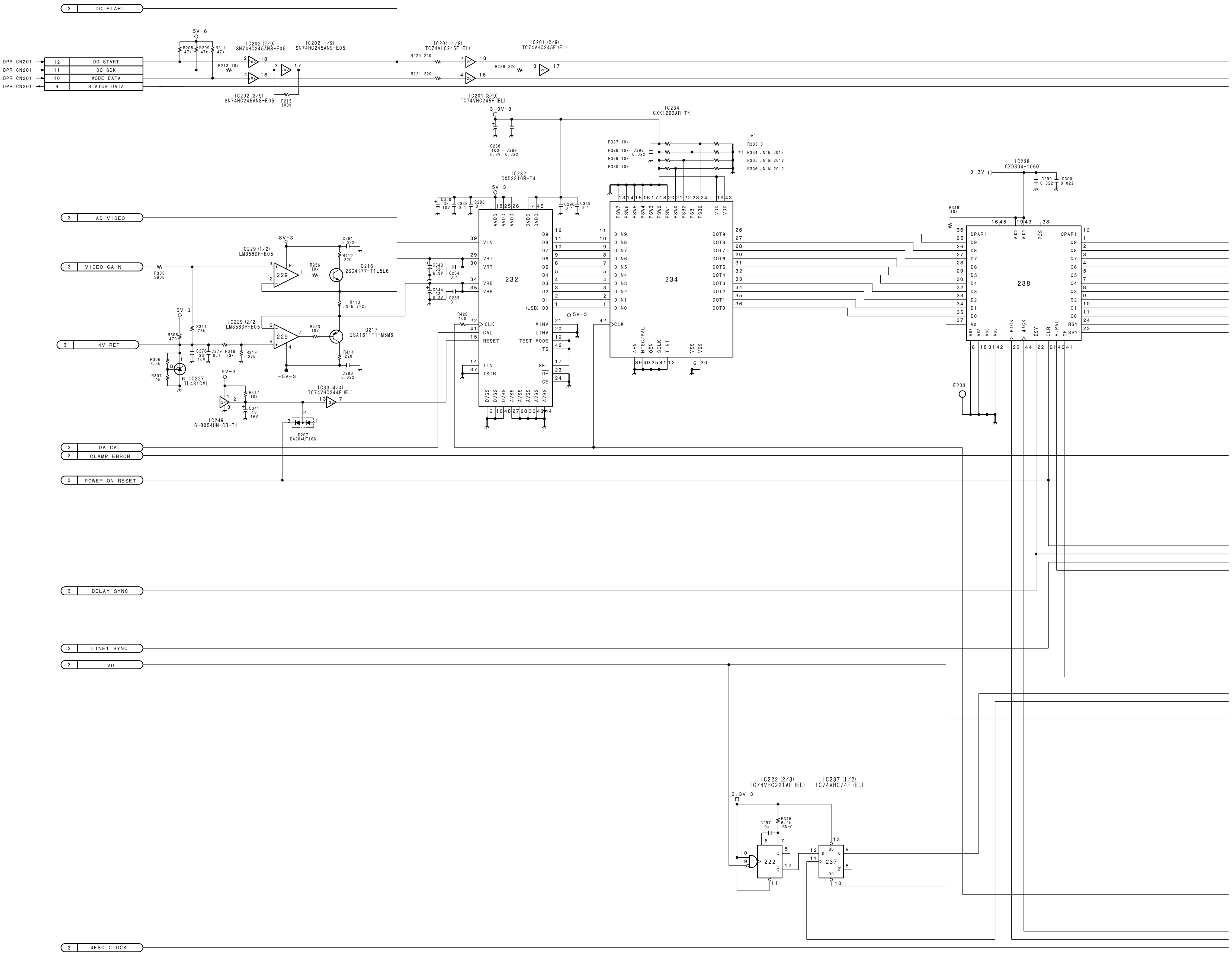
VIDEO SIGNAL PROCESSOR (AD/DA)

VPR-12 (3/6)

BOARD NO. 1-657-805-11
LOT NO. 409-
B-¥DVW250-VPR12-11-S/M

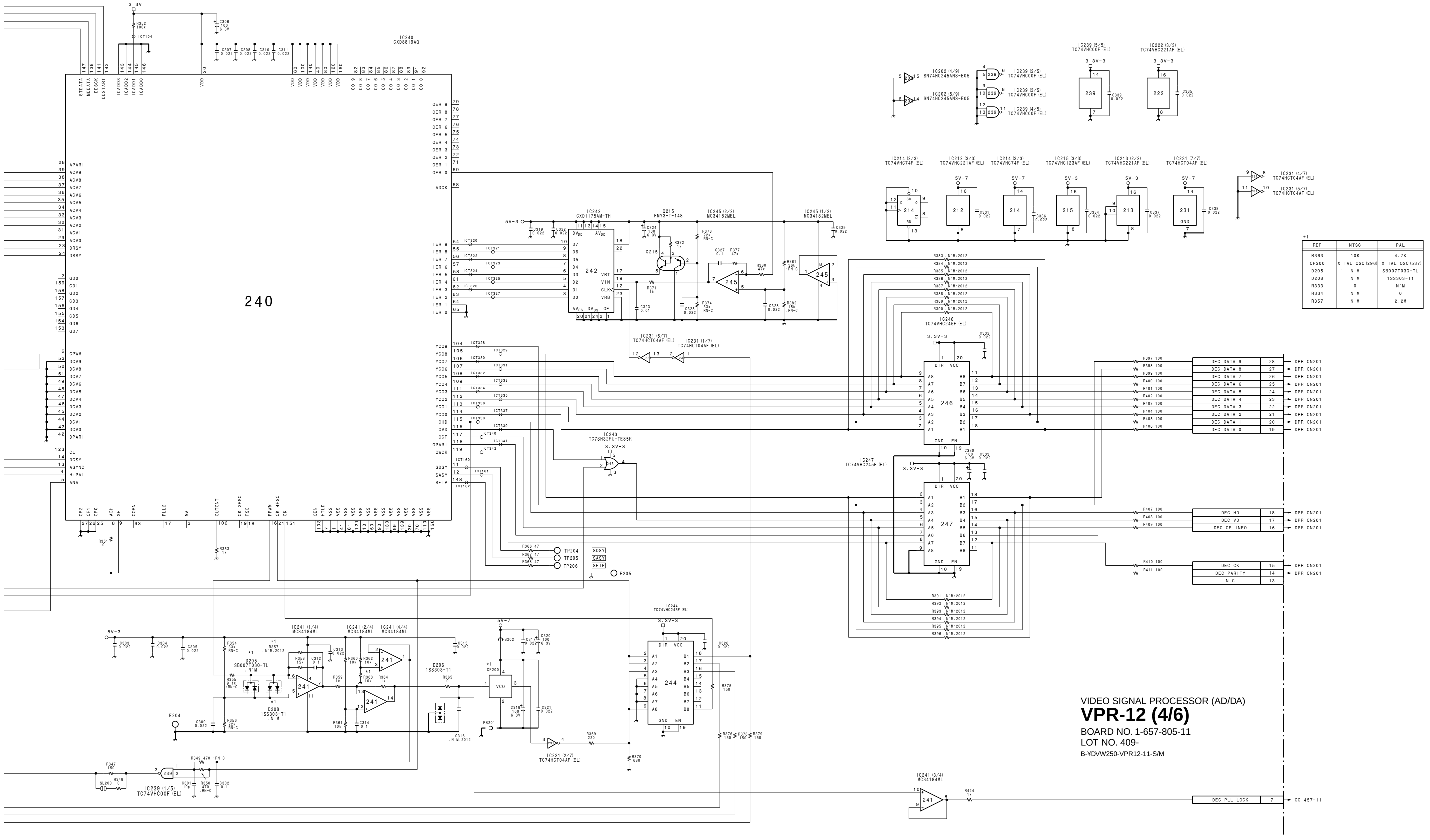
VPR-12 (4/6)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)



DO START
DPR. CN201 12 DO START
DPR. CN201 11 DO SCK
DPR. CN201 10 MODE DATA
DPR. CN201 9 STATUS DATA
5V-6
R208 47k
R209 47k
R211 47k
R213 10k
R215 100k
IC202 (2/9) SN74HC245ANS-E05
IC202 (1/9) SN74HC245ANS-E05
IC202 (3/9) SN74HC245ANS-E05
IC201 (1/9) TC74VHC245F (EL)
IC201 (2/9) TC74VHC245F (EL)
IC201 (3/9) TC74VHC245F (EL)
R220 220
R221 220
R226 220
3.3V-3
C288 100 6.3V
C289 0.022
IC234 CXK1203AR-T4
R327 10k
R328 10k
R329 10k
R330 10k
C292 0.022
R333 0
R334 N.M.2012
R335 N.M.2012
R336 N.M.2012
IC238 CXD304-106Q
3.3V
C299 0.022
C300 0.022
R346 10k
IC232 CXD2310R-T4
5V-3
C350 33 10V
C348 0.1
C286 0.1
C290 0.1
C349 0.1
AD VIDEO
VIDEO GAIN
R305 390k
8V-3
C281 0.022
R412 220
IC229 (1/2) LM358DR-E05
R256 10k
Q216 2SC4177-T1L5L6
R413 N.M.2125
C343 33 6.3V
C284 0.1
C344 33 6.3V
C285 0.1
IC229 (2/2) LM358DR-E05
R311 75k
R308 470
R423 10k
Q217 2SA1611T1-M5M6
4V REF
C278 33 10V
C279 0.1
R318 33k
R319 27k
R414 220
C283 0.022
-5V-3
R306 7.5k
R307 10k
IC227 TL431CML
R428 100
IC249 S-8054HN-CB-T1
R417 10k
C341 10 16V
IC33 (4/4) TC74VHC244F (EL)
D207 DA204UT106
VIN VRT VRT VRB VRB CLK CAL RESET TIN TSTR
D9 D8 D7 D6 D5 D4 D3 D2 D1 (LSB) D0
MINV LINV TEST MODE TS SEL OE CE
AVDD DVDD DVSS AVSS
232
DIN9 DIN8 DIN7 DIN6 DIN5 DIN4 DIN3 DIN2 DIN1 DIN0 CLK
DOT9 DOT8 DOT7 DOT6 DOT5 DOT4 DOT3 DOT2 DOT1 DOT0
PSW7 PSW6 PSW5 PSW4 PSW3 PSW2 PSW1 PSW0 PSB2 PSB1 PSB0 VDD VDD
AEN NTSC/PAL OEN SCLK TINT VSS VSS
234
DPARI D9 D8 D7 D6 D5 D4 D3 D2 D1 D0 V0
QPARI Q9 Q8 Q7 Q6 Q5 Q4 Q3 Q2 Q1 Q0 RSY SSY
VDD VDD POS VSS 8FCK 4FCK DSY CLR H PAL
238
E203
DA CAL
CLAMP ERROR
POWER ON RESET
DELAY SYNC
LINE1 SYNC
VD
IC222 (2/3) TC74VHC221AF (EL)
IC237 (1/2) TC74VHC74F (EL)
3.3V-3
C297 10μ
R345 8.2k RN-C
222
237
4FSC CLOCK
1 2 3 4 5
A B C D E F G H

3-14


IC240 CXD8819AQ
240
IC242 CXD1175AM-TH
242
Q215 FMY3-T-148
IC245 (2/2) MC34182MEL
IC245 (1/2) MC34182MEL
IC231 (6/7) TC74HCT04AF (EL)
IC231 (1/7) TC74HCT04AF (EL)
IC243 TC7SH32FU-TE85R
IC246 TC74VHC245F (EL)
246
IC247 TC74VHC245F (EL)
247
IC244 TC74VHC245F (EL)
244
IC241 (1/4) MC34184ML
IC241 (2/4) MC34184ML
IC241 (4/4) MC34184ML
IC241 (3/4) MC34184ML
IC231 (2/7) TC74HCT04AF (EL)
IC239 (1/5) TC74VHC00F (EL)
IC202 (4/9) SN74HC245ANS-E05
IC202 (5/9) SN74HC245ANS-E05
IC239 (2/5) TC74VHC00F (EL)
IC239 (3/5) TC74VHC00F (EL)
IC239 (4/5) TC74VHC00F (EL)
IC239 (5/5) TC74VHC00F (EL)
IC222 (3/3) TC74VHC221AF (EL)
IC214 (2/3) TC74VHC74F (EL)
IC212 (3/3) TC74VHC221AF (EL)
IC214 (3/3) TC74VHC74F (EL)
IC215 (3/3) TC74VHC123AF (EL)
IC213 (2/2) TC74VHC221AF (EL)
IC231 (7/7) TC74HCT04AF (EL)
IC231 (4/7) TC74HCT04AF (EL)
IC231 (5/7) TC74HCT04AF (EL)
D205 SB007T03Q-TL
D208 1SS303-T1
D206 1SS303-T1
CP200 VCO
3.3V
5V-3
5V-7
3.3V-3
DEC DATA 9 … DEC DATA 0
DEC HD
DEC VD
DEC CF INFO
DEC CK
DEC PARITY
N.C
DEC PLL LOCK
DPR.CN201
CC.457-11
TP204
TP205
TP206
E204
E205
SDSY
SASY
SFTP

*1

REF	NTSC	PAL
R363	10K	4.7K
CP200	X TAL OSC(296)	X TAL OSC(537)
D205	N'M	SB007T03Q-TL
D208	N'M	1SS303-T1
R333	0	N'M
R334	N'M	0
R357	N'M	2.2M

VIDEO SIGNAL PROCESSOR (AD/DA)

VPR-12 (4/6)

BOARD NO. 1-657-805-11
LOT NO. 409-
B-¥DVW250-VPR12-11-S/M

VPR-12 (5/6)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

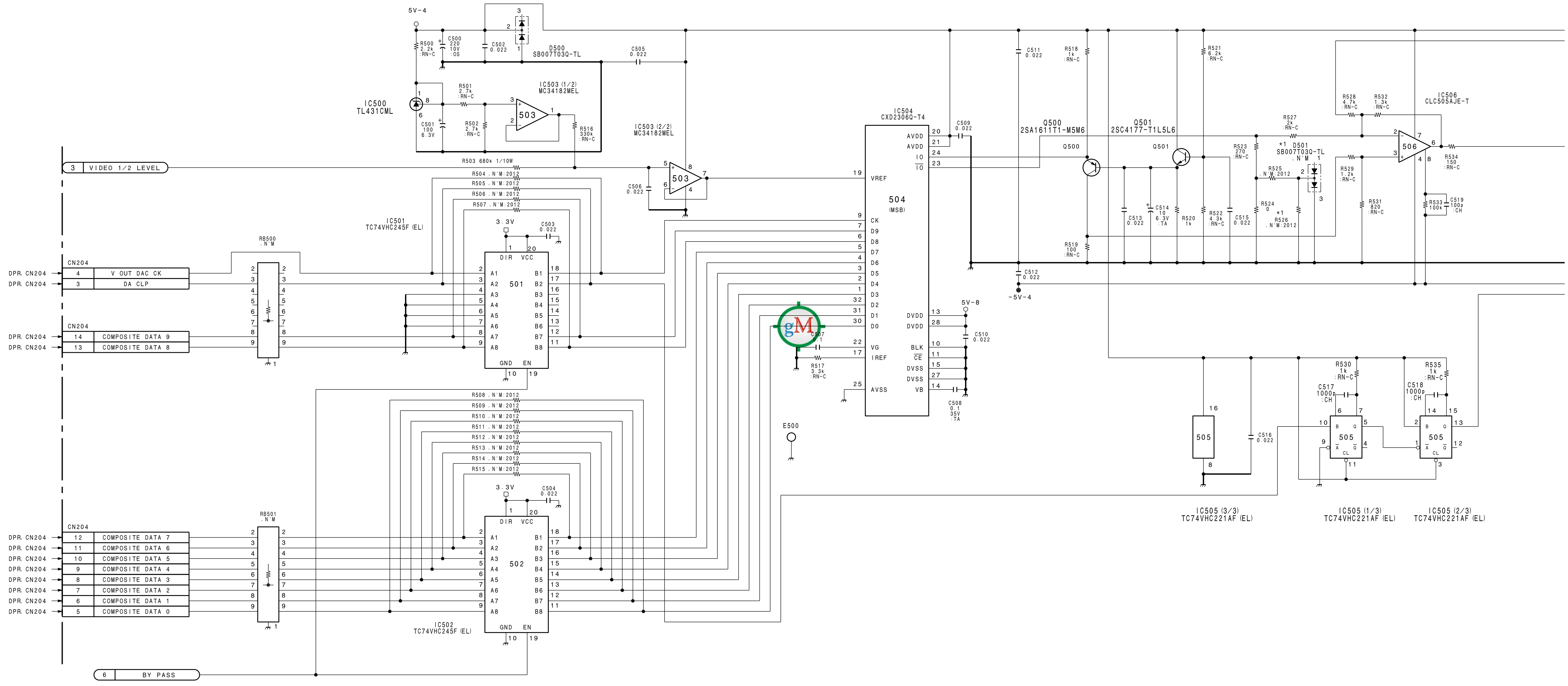
1

2

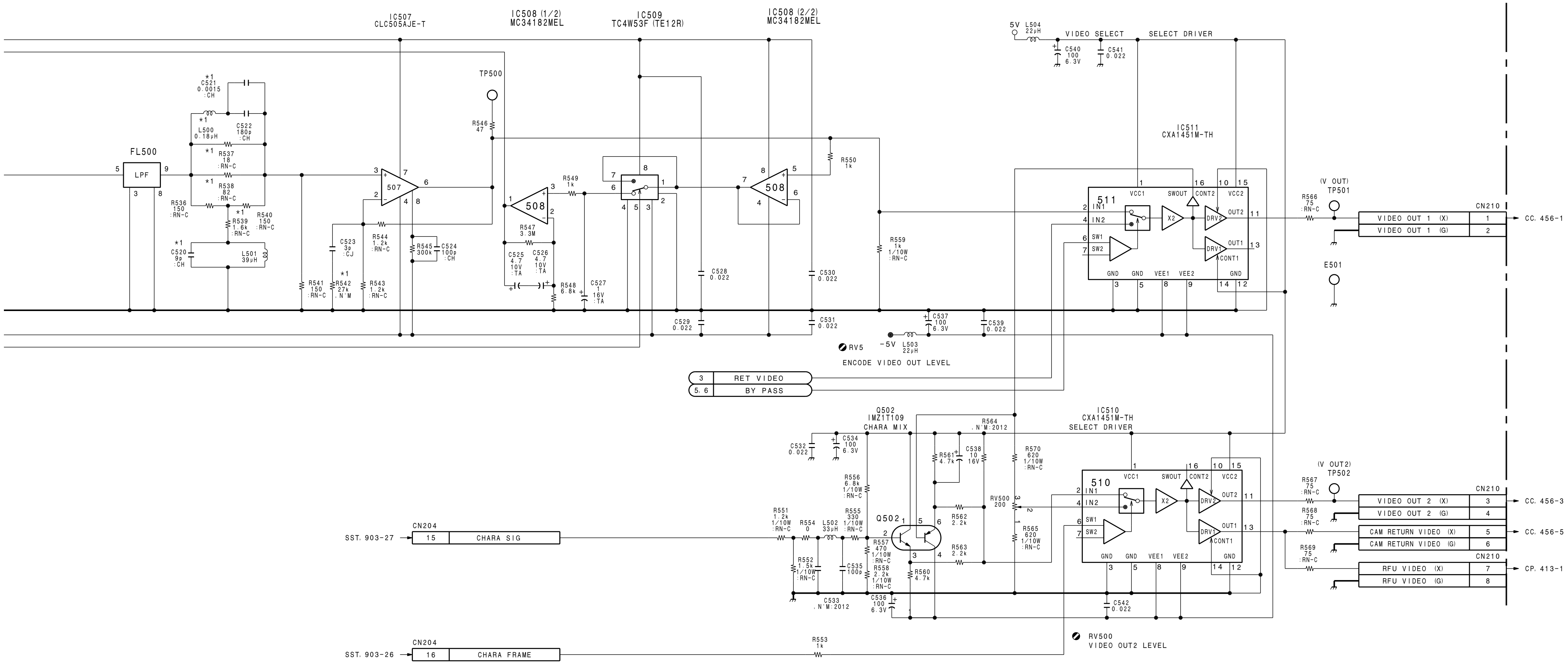
3

4

5


5V-4
R500 2.2k :RN-C
C500 220 10V :OS
C502 0.022
D500 SB007T03Q-TL
C505 0.022
IC500 TL431CML
R501 2.7k :RN-C
R502 2.7k :RN-C
C501 100 6.3V
IC503 (1/2) MC34182MEL
503
R516 330k :RN-C
IC503 (2/2) MC34182MEL
C506 0.022
3 VIDEO 1/2 LEVEL
R503 680k 1/10W
R504 :N'M:2012
R505 :N'M:2012
R506 :N'M:2012
R507 :N'M:2012
IC501 TC74VHC245F (EL)
3.3V
C503 0.022
RB500 :N'M
CN204
DPR.CN204
4 V OUT DAC CK
3 DA CLP
14 COMPOSITE DATA 9
13 COMPOSITE DATA 8
DIR VCC
501
GND EN
R508 :N'M:2012
R509 :N'M:2012
R510 :N'M:2012
R511 :N'M:2012
R512 :N'M:2012
R513 :N'M:2012
R514 :N'M:2012
R515 :N'M:2012
C504 0.022
RB501 :N'M
12 COMPOSITE DATA 7
11 COMPOSITE DATA 6
10 COMPOSITE DATA 5
9 COMPOSITE DATA 4
8 COMPOSITE DATA 3
7 COMPOSITE DATA 2
6 COMPOSITE DATA 1
5 COMPOSITE DATA 0
502
IC502 TC74VHC245F (EL)
6 BY PASS
IC504 CXD2306Q-T4
504 (MSB)
AVDD AVDD IO IO VREF CK D9 D8 D7 D6 D5 D4 D3 D2 D1 D0 VG IREF AVSS DVDD DVDD BLK CE DVSS DVSS VB
C509 0.022
5V-8
C510 0.022
C507 1
R517 3.3k :RN-C
C508 0.1 35V :TA
E500
C511 0.022
C512 0.022
-5V-4
R518 1k :RN-C
R519 100 :RN-C
Q500 2SA1611T1-M5M6
Q501 2SC4177-T1L5L6
R521 6.2k :RN-C
C513 0.022
C514 10 6.3V :TA
R520 1k
R522 4.3k :RN-C
C515 0.022
R523 270 :RN-C
R527 2k :RN-C
*1 D501 SB007T03Q-TL :N'M
R525 :N'M:2012
R524 0
*1 R526 :N'M:2012
R528 4.7k :RN-C
R532 1.3k :RN-C
IC506 CLC505AJE-T
506
R529 1.2k :RN-C
R531 820 :RN-C
R533 100k
C519 100p :CH
R534 150 :RN-C
505
C516 0.022
IC505 (3/3) TC74VHC221AF (EL)
R530 1k :RN-C
C517 1000p :CH
R535 1k :RN-C
C518 1000p :CH
IC505 (1/3) TC74VHC221AF (EL)
IC505 (2/3) TC74VHC221AF (EL)

A B C D E F G H


IC507
CLC505AJE-T
IC508 (1/2)
MC34182MEL
IC509
TC4W53F (TE12R)
IC508 (2/2)
MC34182MEL
FL500
LPF
TP500
507
508
5V L504 22μH
VIDEO SELECT
SELECT DRIVER
C540 100 6.3V
C541 0.022
IC511
CXA1451M-TH
511
IN1
IN2
SW1
SW2
VCC1
SWOUT
CONT2
VCC2
OUT2
OUT1
DRV2
DRV1
CONT1
GND
VEE1
VEE2
X2
(V OUT)
TP501
E501
R566 75 :RN-C
CN210
VIDEO OUT 1 (X)
VIDEO OUT 1 (G)
CC. 456-1
RV5
-5V L503 22μH
ENCODE VIDEO OUT LEVEL
RET VIDEO
BY PASS
Q502
IMZ1T109
CHARA MIX
IC510
CXA1451M-TH
SELECT DRIVER
510
(V OUT2)
TP502
VIDEO OUT 2 (X)
VIDEO OUT 2 (G)
CAM RETURN VIDEO (X)
CAM RETURN VIDEO (G)
RFU VIDEO (X)
RFU VIDEO (G)
CC. 456-3
CC. 456-5
CP. 413-1
RV500 200
RV500
VIDEO OUT2 LEVEL
CN204
SST. 903-27
15
CHARA SIG
SST. 903-26
16
CHARA FRAME
R553 1k
C542 0.022

*1

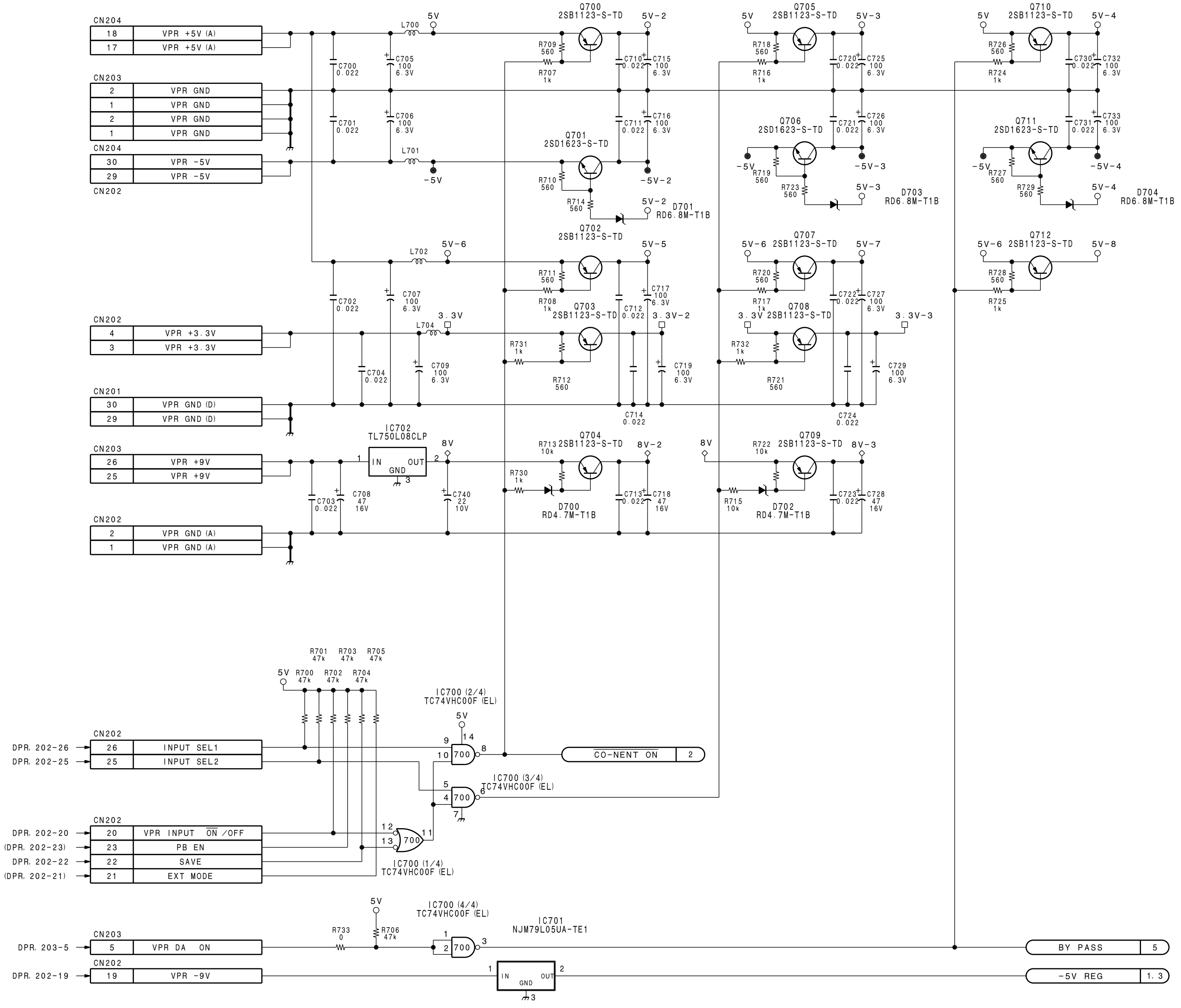
REF	NTSC	PAL
C520	9P	6P
C521	1500P	2200P
D501	N'M	SB007
L500	0.18UH	0.12UH
R526	N'M	1.8K
R537	18	10
R538	82	27
R539	1.6K	2.7K
R542	N'M	39K

VIDEO SIGNAL PROCESSOR (AD/DA)

VPR-12 (5/6)

BOARD NO. 1-657-805-11
LOT NO. 409-
B-¥DVW250-VPR12-11-S/M

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


CN204
18 VPR +5V (A)
17 VPR +5V (A)
CN203
2 VPR GND
1 VPR GND
2 VPR GND
1 VPR GND
CN204
30 VPR -5V
29 VPR -5V
CN202
CN202
4 VPR +3.3V
3 VPR +3.3V
CN201
30 VPR GND (D)
29 VPR GND (D)
CN203
26 VPR +9V
25 VPR +9V
CN202
2 VPR GND (A)
1 VPR GND (A)
L700
5V
L701
-5V
L702
5V-6
L704
3.3V
C700 0.022
C705 100 6.3V
C701 0.022
C706 100 6.3V
C702 0.022
C707 100 6.3V
C704 0.022
C709 100 6.3V
IC702 TL750L08CLP
IN OUT GND
8V
C703 0.022
C708 47 16V
C740 22 10V
Q700 2SB1123-S-TD
5V-2
R709 560
R707 1k
C710 0.022
C715 100 6.3V
Q701 2SD1623-S-TD
C711 0.022
C716 100 6.3V
R710 560
-5V-2
R714 560
D701 RD6.8M-T1B
Q702 2SB1123-S-TD
5V-5
R711 560
R708 1k
C717 100 6.3V
Q703 2SB1123-S-TD
C712 0.022
3.3V-2
R731 1k
R712 560
C719 100 6.3V
C714 0.022
Q704 2SB1123-S-TD
R713 10k
8V-2
R730 1k
D700 RD4.7M-T1B
C713 0.022
C718 47 16V
Q705 2SB1123-S-TD
5V-3
R718 560
R716 1k
C720 0.022
C725 100 6.3V
Q706 2SD1623-S-TD
C721 0.022
C726 100 6.3V
-5V
R719 560
-5V-3
R723 560
D703 RD6.8M-T1B
Q707 2SB1123-S-TD
5V-7
R720 560
R717 1k
C722 0.022
C727 100 6.3V
Q708 2SB1123-S-TD
3.3V-3
R732 1k
R721 560
C729 100 6.3V
C724 0.022
Q709 2SB1123-S-TD
R722 10k
8V-3
R715 10k
D702 RD4.7M-T1B
C723 0.022
C728 47 16V
Q710 2SB1123-S-TD
5V-4
R726 560
R724 1k
C730 0.022
C732 100 6.3V
Q711 2SD1623-S-TD
C731 0.022
C733 100 6.3V
R727 560
-5V-4
R729 560
D704 RD6.8M-T1B
Q712 2SB1123-S-TD
5V-8
R728 560
R725 1k
R701 47k
R703 47k
R705 47k
R700 47k
R702 47k
R704 47k
IC700 (2/4) TC74VHC00F (EL)
IC700 (3/4) TC74VHC00F (EL)
IC700 (1/4) TC74VHC00F (EL)
IC700 (4/4) TC74VHC00F (EL)
700
CO-NENT ON 2
CN202
DPR. 202-26 26 INPUT SEL1
DPR. 202-25 25 INPUT SEL2
CN202
DPR. 202-20 20 VPR INPUT ON /OFF
(DPR. 202-23) 23 PB EN
DPR. 202-22 22 SAVE
(DPR. 202-21) 21 EXT MODE
CN203
DPR. 203-5 5 VPR DA ON
CN202
DPR. 202-19 19 VPR -9V
R733 0
R706 47k
IC701 NJM79L05UA-TE1
BY PASS 5
-5V REG 1.3

VIDEO SIGNAL PROCESSOR (AD/DA)

VPR-12 (6/6)

BOARD NO. 1-657-805-11
LOT NO. 409-
B-¥DVW250-VPR12-11-S/M

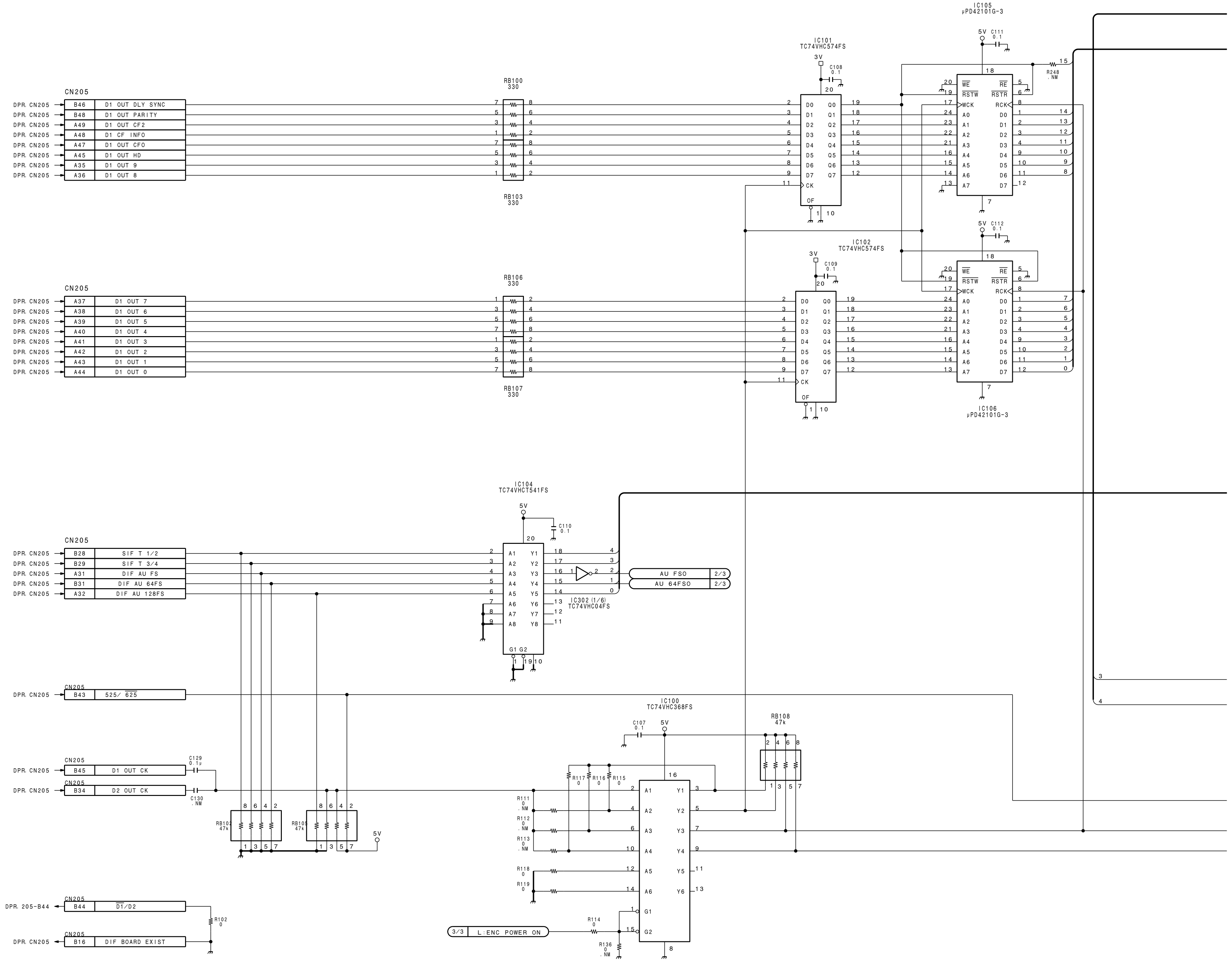
DIF-31 (1/3)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

DIF-31 (1-657-802-11)

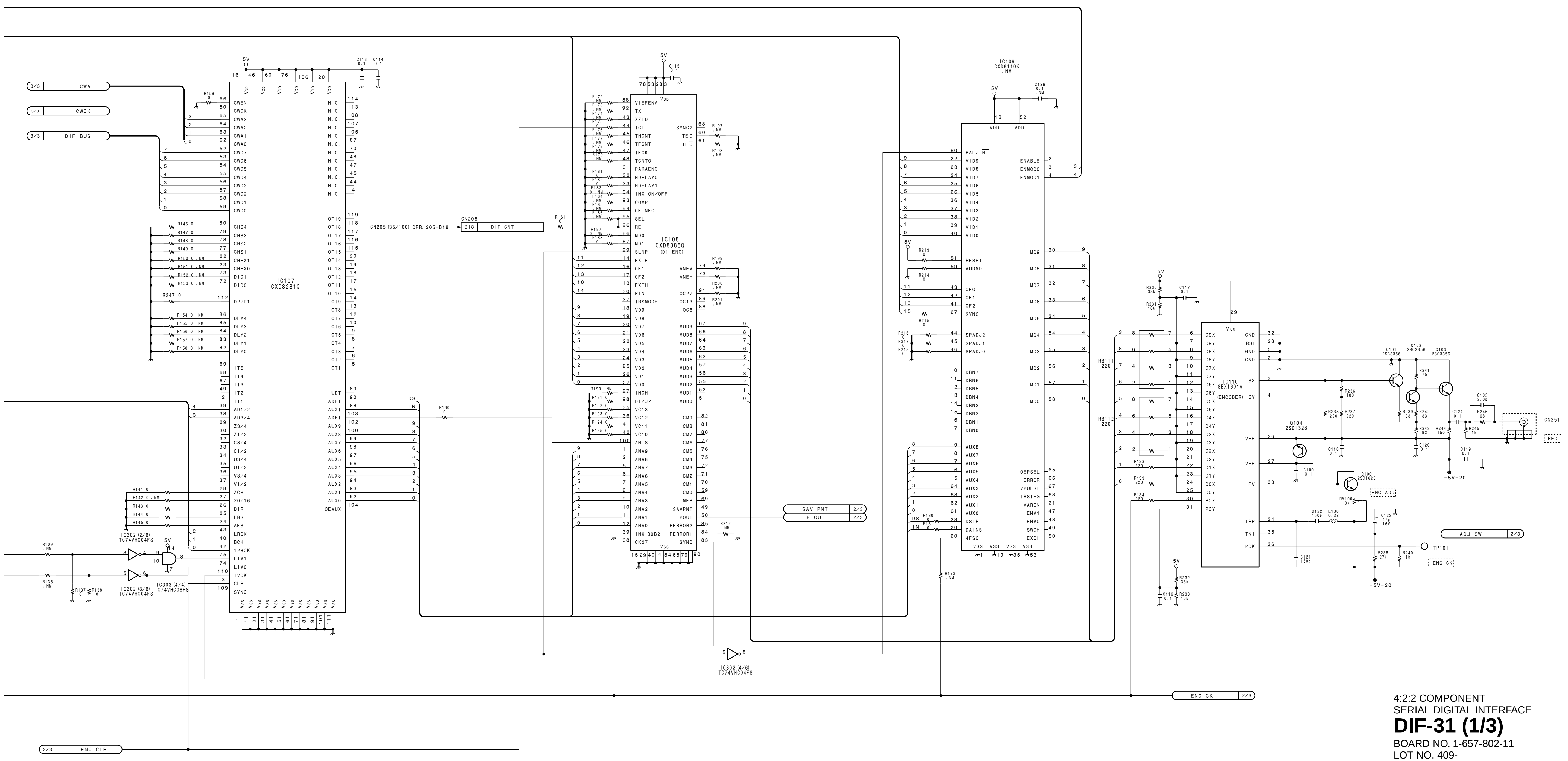
CN205	D3
CN251	A3
CN252	A4
CN253	A4
CN254	A3
D200	D2
E300	*D1
E301	*A2
E302	A5
E303	D5
FB300	*A3
FB301	*A3
FB302	*A5
FB303	B3
FB304	B3
FB305	*D3
FB310	*A5
IC100	D2
IC101	*D1
IC102	*D1
IC104	D2
IC105	*D1
IC106	*D2
IC107	*C1
IC108	B1
IC110	*B2
IC300	A3
IC301	*B4
IC302	C2
IC303	C2
IC304	C4
IC305	*B4
IC306	C3
IC308	B5
IC309	D5
IC310	D5
IC311	D4
IC312	*D4
IC313	C2
IC500	D4
IC501	D3
IC502	C4
IC503	D4
IC504	D3
IC505	C3
IC506	C3
IC508	C4
IC511	C5
L100	B3
Q100	B3
Q101	A3
Q102	A2
Q103	A2
Q104	*B3
Q300	A4
Q301	A3
Q302	A3
Q303	*A3
Q306	B3
Q307	C4
Q308	B4
Q309	C4
Q310	B4
Q311	C4
Q312	B4
Q313	C4
Q314	B4
Q315	C4
Q316	B4
Q317	C4
Q318	B4
Q319	B3
Q320	B3
Q321	C3
Q322	B3
Q323	C3
Q324	B3
Q325	B3
Q326	C3
Q327	B3
Q328	C3
Q500	D2
Q501	D3
RB100	*E1
RB102	D2
RB103	*E1
RB105	D2
RB106	*D1
RB107	*D1
RB108	D2
RB111	*A2
RB112	*B2
RB300	B3
RB301	*D3
RB310	B4
RB311	B4
RB312	B3
RB500	D4
RB501	D3
RB502	D4
RV100	*B3
RV300	*A3
S300	*C4
TP101	*B3
TP301	*A4
TP303	*C3

* : Soldering Side


IC105
μPD42101G-3
IC101
TC74VHC574FS
IC102
TC74VHC574FS
IC106
μPD42101G-3
CN205
RB100 330
RB103 330
RB106 330
RB107 330
D1 OUT DLY SYNC
D1 OUT PARITY
D1 OUT CF2
D1 OUT INFO
D1 OUT CF0
D1 OUT HD
D1 OUT 9
D1 OUT 8
D1 OUT 7
D1 OUT 6
D1 OUT 5
D1 OUT 4
D1 OUT 3
D1 OUT 2
D1 OUT 1
D1 OUT 0
IC104
TC74VHCT541FS
SIF T 1/2
SIF T 3/4
DIF AU FS
DIF AU 64FS
DIF AU 128FS
IC302 (1/6)
TC74VHC04FS
AU FS0 2/3
AU 64FS0 2/3
525/ 625
D1 OUT CK
D2 OUT CK
RB102 47k
RB105 47k
IC100
TC74VHC368FS
RB108 47k
D1/D2
DIF BOARD EXIST
3/3 L:ENC POWER ON
DPR. CN205
DPR. 205-B44
3V
5V

3-20

http://getMANUAL.com


1
2
3
4
5
IC107
CXD8281Q
IC108
CXD8385Q
(D1 ENC)
IC109
CXD8110K
. NM
IC110
SBX1601A
(ENCODER)
IC302 (2/6)
TC74VHC04FS
IC302 (3/6)
TC74VHC04FS
IC303 (4/4)
TC74VHC08FS
IC302 (4/6)
TC74VHC04FS
Q100
2SC1623
Q101
2SC3356
Q102
2SC3356
Q103
2SC3356
Q104
2SD1328
CN205 (35/100) DPR 205-B18
CN205
B18
DIF CNT
CN251
RED
3/3 CWA
3/3 CWCK
3/3 DIF BUS
SAV PNT 2/3
P OUT 2/3
ADJ SW 2/3
ENC CK 2/3
2/3 ENC CLR
ENC ADJ
ENC CK
TP101
RB111 220
RB112 220
5V
-5V-20

4:2:2 COMPONENT
SERIAL DIGITAL INTERFACE

DIF-31 (1/3)

BOARD NO. 1-657-802-11
LOT NO. 409-
B-¥DVW250-DIF31-11

DIF-31 (2/3)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

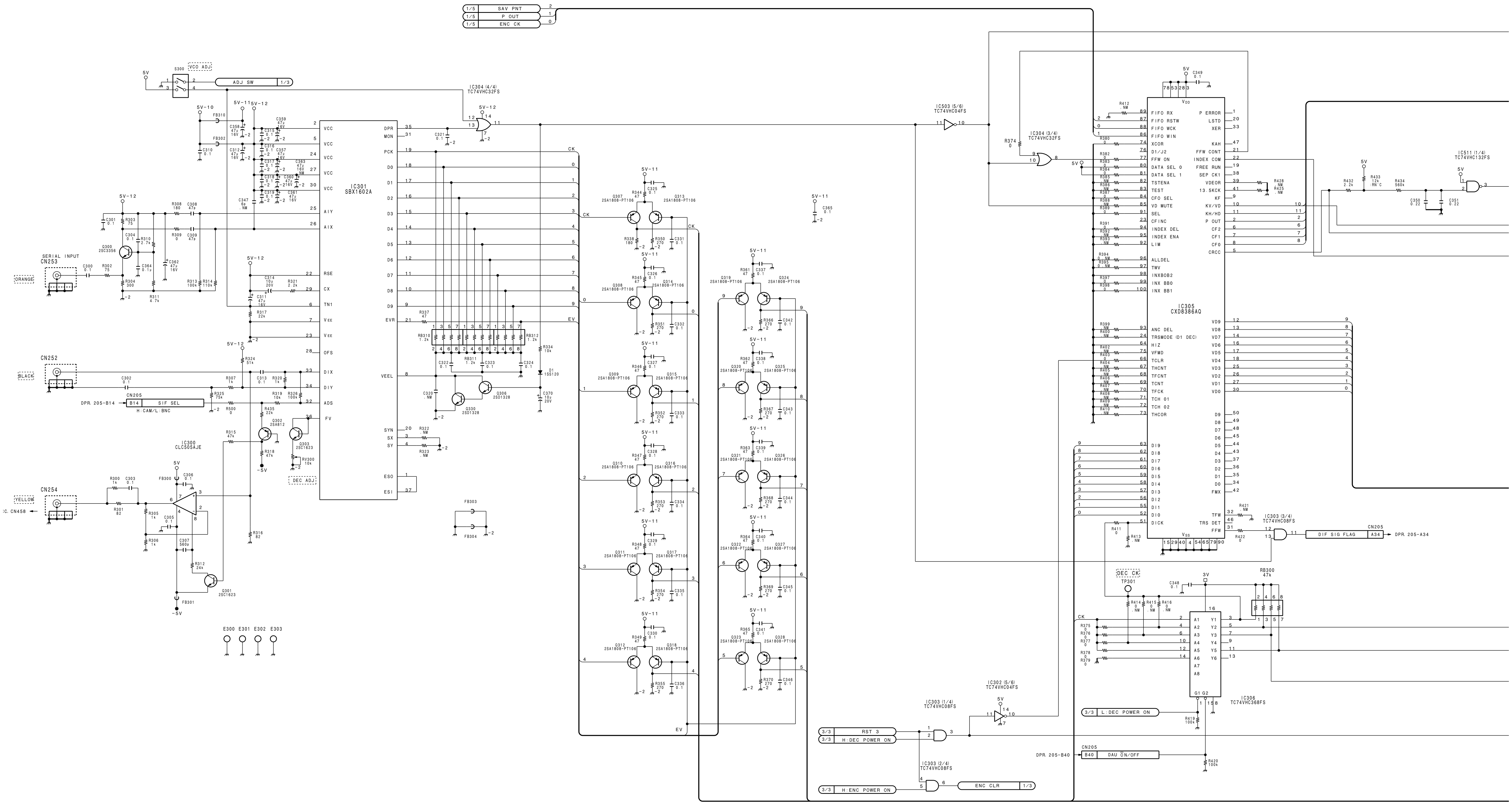
1

2

3

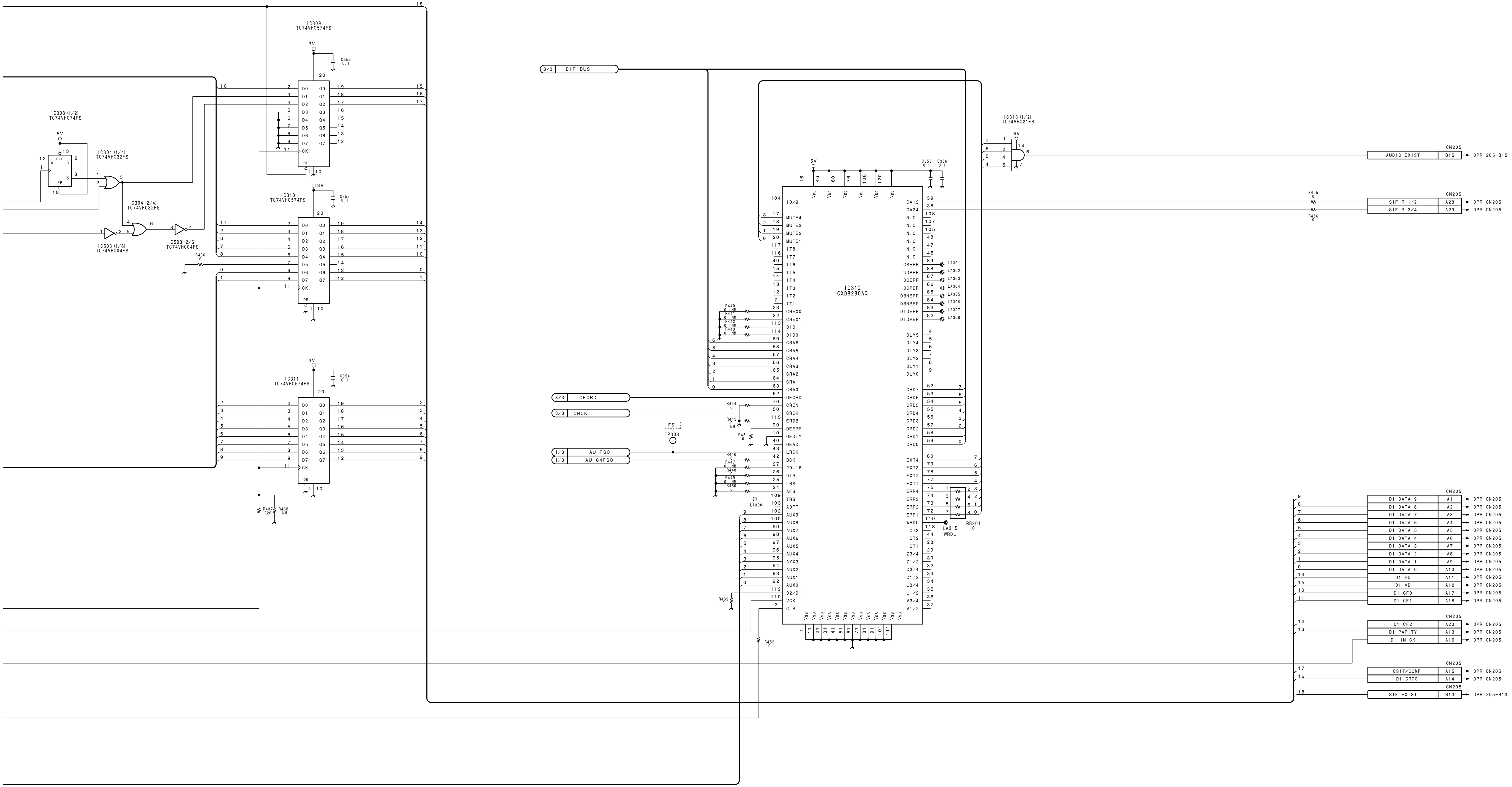
4

5


SAV PNT
P OUT
ENC CK
ADJ SW
S300
VCO ADJ
IC301
SBX1602A
IC304 (4/4)
TC74VHC32FS
IC304 (3/4)
TC74VHC32FS
IC503 (5/6)
TC74VHC04FS
IC305
CXD8386AQ
IC511 (1/4)
TC74VHC132FS
IC303 (3/4)
TC74VHC08FS
DIF SIG FLAG
CN205
DPR 205-A34
SERIAL INPUT
CN253
ORANGE
CN252
BLACK
CN254
YELLOW
CN205
DPR 205-B14
SIF SEL
H:CAM/L:BNC
IC300
CLC505AJE
DEC ADJ
E300 E301 E302 E303
FB303
FB304
DEC CK
TP301
RB300
IC306
TC74VHC368FS
L:DEC POWER ON
IC302 (5/6)
TC74VHC04FS
IC303 (1/4)
TC74VHC08FS
RST 3
H:DEC POWER ON
IC303 (2/4)
TC74VHC08FS
H:ENC POWER ON
ENC CLR
DPR 205-B40
DAU ON/OFF

3-22

A B C D E F G H


IC309
TC74VHC574FS
IC310
TC74VHC574FS
IC311
TC74VHC574FS
IC308 (1/2)
TC74VHC74FS
IC304 (1/4)
TC74VHC32FS
IC304 (2/4)
TC74VHC32FS
IC503 (1/6)
TC74VHC04FS
IC503 (2/6)
TC74VHC04FS
IC312
CXD8280AQ
IC313 (1/2)
TC74VHC21FS
3/3 DIF BUS
3/3 OECRD
3/3 CRCK
1/3 AU FSO
1/3 AU 64FSO
TP303
FS1
RB301
LA315
WRDL
CN205
AUDIO EXIST
SIF R 1/2
SIF R 3/4
D1 DATA 9
D1 DATA 8
D1 DATA 7
D1 DATA 6
D1 DATA 5
D1 DATA 4
D1 DATA 3
D1 DATA 2
D1 DATA 1
D1 DATA 0
D1 HD
D1 VD
D1 CF0
D1 CF1
D1 CF2
D1 PARITY
D1 IN CK
CSIT/COMP
D1 CRCC
SIF EXIST
DPR. 205-B15
DPR. CN205
DPR. 205-B13
5V
3V

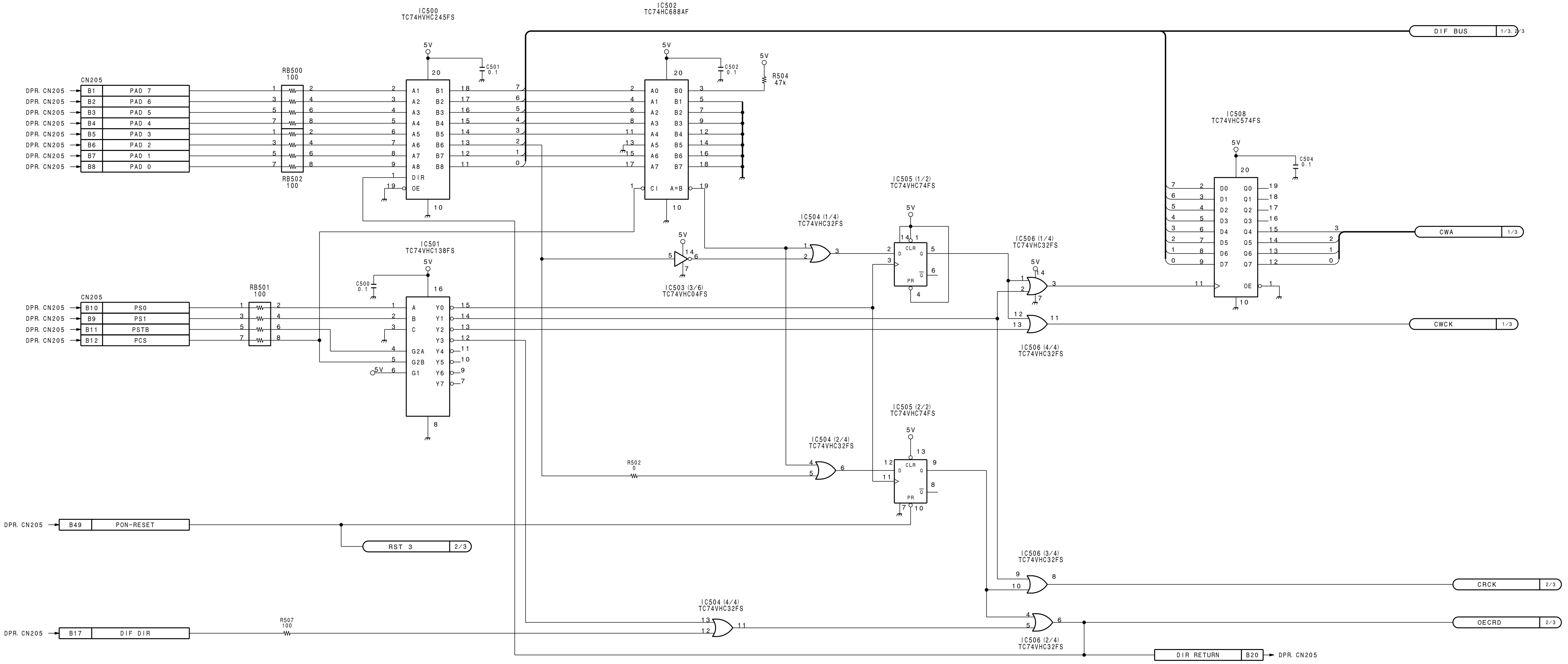
4:2:2 COMPONENT
SERIAL DIGITAL INTERFACE

DIF-31 (2/3)

BOARD NO. 1-657-802-11
LOT NO. 409-
B-¥DVW250-DIF31-11

DIF-31 (3/3)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


IC500
TC74HVHC245FS
IC502
TC74HC688AF
IC501
TC74VHC138FS
IC503 (3/6)
TC74VHC04FS
IC504 (1/4)
TC74VHC32FS
IC504 (2/4)
TC74VHC32FS
IC504 (4/4)
TC74VHC32FS
IC505 (1/2)
TC74VHC74FS
IC505 (2/2)
TC74VHC74FS
IC506 (1/4)
TC74VHC32FS
IC506 (2/4)
TC74VHC32FS
IC506 (3/4)
TC74VHC32FS
IC506 (4/4)
TC74VHC32FS
IC508
TC74VHC574FS
CN205
RB500
100
RB502
100
RB501
100
R504
47k
R502
0
R507
100
C500
0.1
C501
0.1
C502
0.1
C504
0.1
5V
DPR. CN205
B1 PAD 7
B2 PAD 6
B3 PAD 5
B4 PAD 4
B5 PAD 3
B6 PAD 2
B7 PAD 1
B8 PAD 0
B10 PS0
B9 PS1
B11 PSTB
B12 PCS
B49 PON-RESET
B17 DIF DIR
RST 3 2/3
DIF BUS 1/3, 2/3
CWA 1/3
CWCK 1/3
CRCK 2/3
OECRD 2/3
DIR RETURN B20
DPR. CN205

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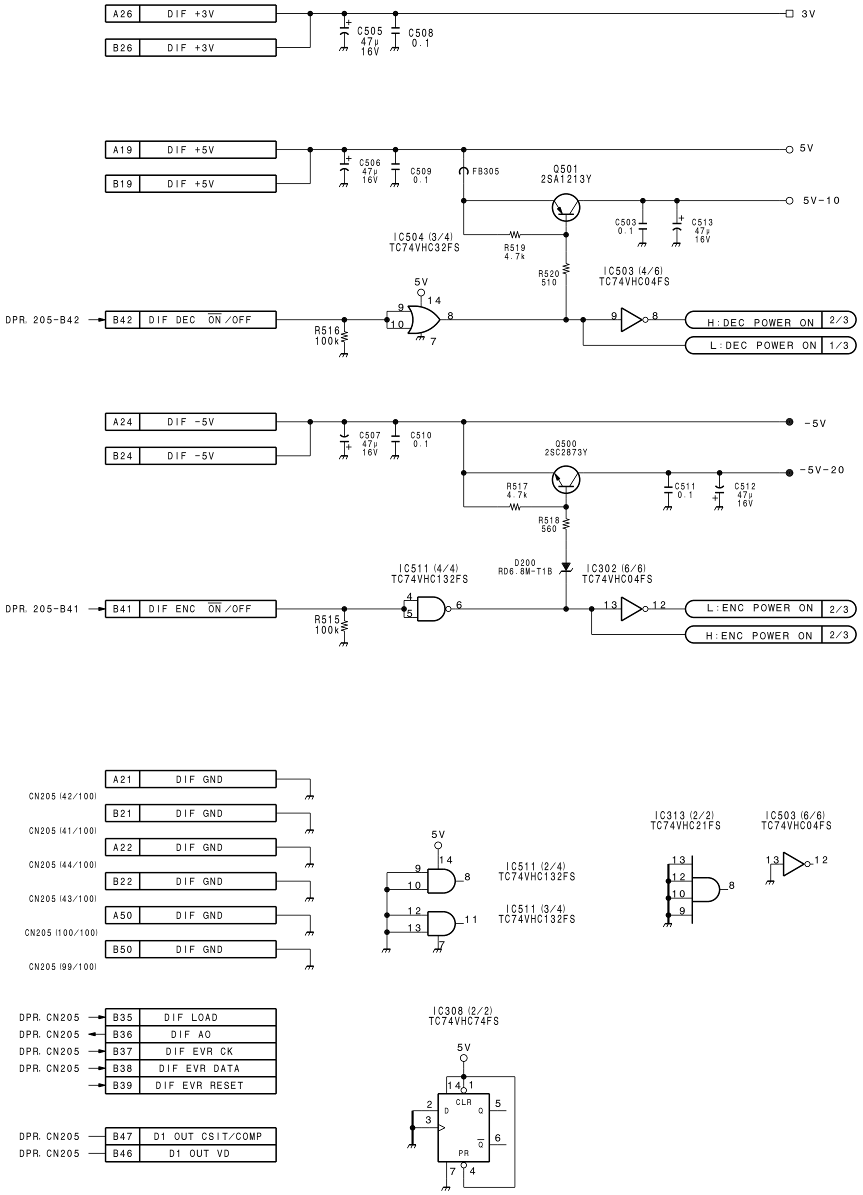
DIF-31 (3/3)


A26 DIF +3V
B26 DIF +3V
C505 47μ 16V
C508 0.1
3V
A19 DIF +5V
B19 DIF +5V
C506 47μ 16V
C509 0.1
FB305
Q501 2SA1213Y
5V
5V-10
C503 0.1
C513 47μ 16V
IC504 (3/4) TC74VHC32FS
R519 4.7k
R520 510
IC503 (4/6) TC74VHC04FS
DPR, 205-B42
B42 DIF DEC ON/OFF
R516 100k
5V
9
10
14
8
7
9
8
H:DEC POWER ON 2/3
L:DEC POWER ON 1/3
A24 DIF -5V
B24 DIF -5V
C507 47μ 16V
C510 0.1
-5V
Q500 2SC2873Y
-5V-20
R517 4.7k
C511 0.1
C512 47μ 16V
R518 560
D200 RD6.8M-T1B
IC511 (4/4) TC74VHC132FS
IC302 (6/6) TC74VHC04FS
DPR, 205-B41
B41 DIF ENC ON/OFF
R515 100k
4
5
6
13
12
L:ENC POWER ON 2/3
H:ENC POWER ON 2/3
A21 DIF GND
CN205 (42/100)
B21 DIF GND
CN205 (41/100)
A22 DIF GND
CN205 (44/100)
B22 DIF GND
CN205 (43/100)
A50 DIF GND
CN205 (100/100)
B50 DIF GND
CN205 (99/100)
5V
9
10
14
8
12
13
11
7
IC511 (2/4) TC74VHC132FS
IC511 (3/4) TC74VHC132FS
IC313 (2/2) TC74VHC21FS
13
12
10
9
8
IC503 (6/6) TC74VHC04FS
13
12
DPR, CN205 B35 DIF LOAD
DPR, CN205 B36 DIF AO
DPR, CN205 B37 DIF EVR CK
DPR, CN205 B38 DIF EVR DATA
B39 DIF EVR RESET
DPR, CN205 B47 D1 OUT CSIT/COMP
DPR, CN205 B46 D1 OUT VD
IC308 (2/2) TC74VHC74FS
5V
14
1
2
3
D
CLR
Q
5
Q
6
PR
7
4

4:2:2 COMPONENT
SERIAL DIGITAL INTERFACE

DIF-31 (3/3)

BOARD NO. 1-657-802-11
LOT NO. 409-
B-¥DVW250-DIF31-11

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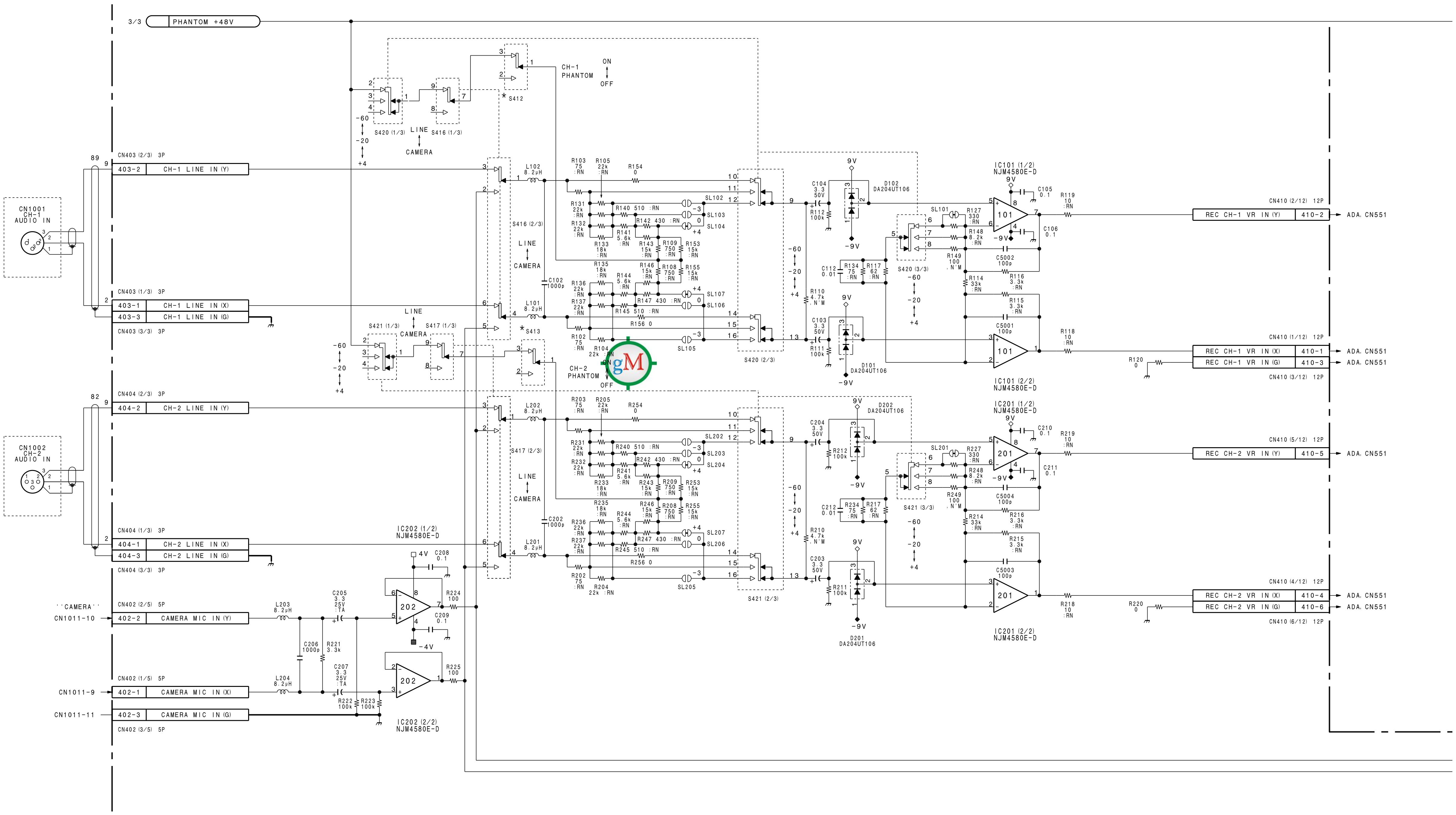
CP-260 (1/3)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

CP-260 (1-657-812-11)

CN401	K2
CN402	K2
CN403	G2
CN404	H2
CN405	H2
CN406	J2
CN407	B2
CN408	L2
CN409	A2
CN410	B2
CN411	B2
CN412	L1
CN413	L2
CN414	G2
CN415	H2
CN416	H2
CN417	J2
CN421	B1
CN1009	L2
D101	*F1
D102	*E1
D201	*F1
D202	*G1
D301	*H1
D302	*H1
D401	*H1
D402	*H1
D601	*G2
D602	*G2
D801	*H2
D802	*J2
D1004	*L2
D1005	*F1
D1006	*F1
D1007	*F1
D1008	*G1
D1009	*G1
D1010	*G1
D1011	*F2
D1012	*E1
D1013	*E2
D1014	*E1
D1015	*E1
D1016	*E1
E551	J1
IC101	*F1
IC201	*G1
IC202	J2
IC301	*H1
IC401	*J1
IC551	E2
IC552	D2
IC553	*C2
IC554	*C2
IC601	*A1
IC602	*A2
IC603	*A1
IC701	*B1
IC703	*B2
IC801	*E1
IC802	*B2
IC803	*D1
IC901	*D1
IC903	*C1
IC1001	K1
IC1004	K1
IC1007	L1
IC2001	*L2
L101	*F1
L102	*F1
L201	*G1
L202	*G1
L203	K2
L204	K2
L301	*H1
L302	*H1
L401	*J1
L402	*J1
L1001	*K2
Q551	E2
Q601	*B1
Q602	*C1
Q701	*B1
Q702	*B1
Q801	D1
Q802	D2
Q901	C2
Q902	C1
Q1001	*L1
Q1002	*L1
Q1003	K1
Q1005	K1
Q1006	*L2
Q1007	*L2
Q1008	*F1
Q1009	*E1
Q1010	*G1
Q1011	*G1
Q1012	*E1
Q1013	*E2
Q1014	*E1
Q1015	*E2
Q1016	J1
Q1017	*F2
Q1018	*F2
Q1019	G1
Q1020	G1
Q2001	*L2
Q2002	*L1
Q2003	*L2
Q2004	*L1
Q2005	*L2
RV551	*J1
S401	C2
S402	C2
S403	D2
S404	D2
S405	C2
S406	C2
S407	D2
S408	D2
S409	D2
S410	E2
S411	E2
S412	F1
S413	G1
S414	H1
S415	J1
S416	F2
S417	G2
S418	H2
S419	J2
S420	F2
S421	G2
S422	H2
S423	J2
S424	L2
TP551	J1

* : Soldering Side



3/3 PHANTOM +48V
CN1001 CH-1 AUDIO IN
CN1002 CH-2 AUDIO IN
CN403 (2/3) 3P
403-2 CH-1 LINE IN (Y)
CN403 (1/3) 3P
403-1 CH-1 LINE IN (X)
403-3 CH-1 LINE IN (G)
CN403 (3/3) 3P
CN404 (2/3) 3P
404-2 CH-2 LINE IN (Y)
CN404 (1/3) 3P
404-1 CH-2 LINE IN (X)
404-3 CH-2 LINE IN (G)
CN404 (3/3) 3P
''CAMERA''
CN1011-10
CN402 (2/5) 5P
402-2 CAMERA MIC IN (Y)
CN1011-9
CN402 (1/5) 5P
402-1 CAMERA MIC IN (X)
CN1011-11
402-3 CAMERA MIC IN (G)
CN402 (3/5) 5P
S420 (1/3)
S416 (1/3)
LINE
CAMERA
CH-1 PHANTOM
ON
OFF
S412
S421 (1/3)
S417 (1/3)
S413
CH-2 PHANTOM
S416 (2/3)
S417 (2/3)
S420 (2/3)
S421 (2/3)
S420 (3/3)
S421 (3/3)
IC101 (1/2) NJM4580E-D
IC101 (2/2) NJM4580E-D
IC201 (1/2) NJM4580E-D
IC201 (2/2) NJM4580E-D
IC202 (1/2) NJM4580E-D
IC202 (2/2) NJM4580E-D
D101 DA204UT106
D102 DA204UT106
D201 DA204UT106
D202 DA204UT106
9V
-9V
4V
-4V
-60
-20
+4
CN410 (2/12) 12P
REC CH-1 VR IN (Y) 410-2
CN410 (1/12) 12P
REC CH-1 VR IN (X) 410-1
REC CH-1 VR IN (G) 410-3
CN410 (3/12) 12P
CN410 (5/12) 12P
REC CH-2 VR IN (Y) 410-5
CN410 (4/12) 12P
REC CH-2 VR IN (X) 410-4
REC CH-2 VR IN (G) 410-6
CN410 (6/12) 12P
ADA. CN551

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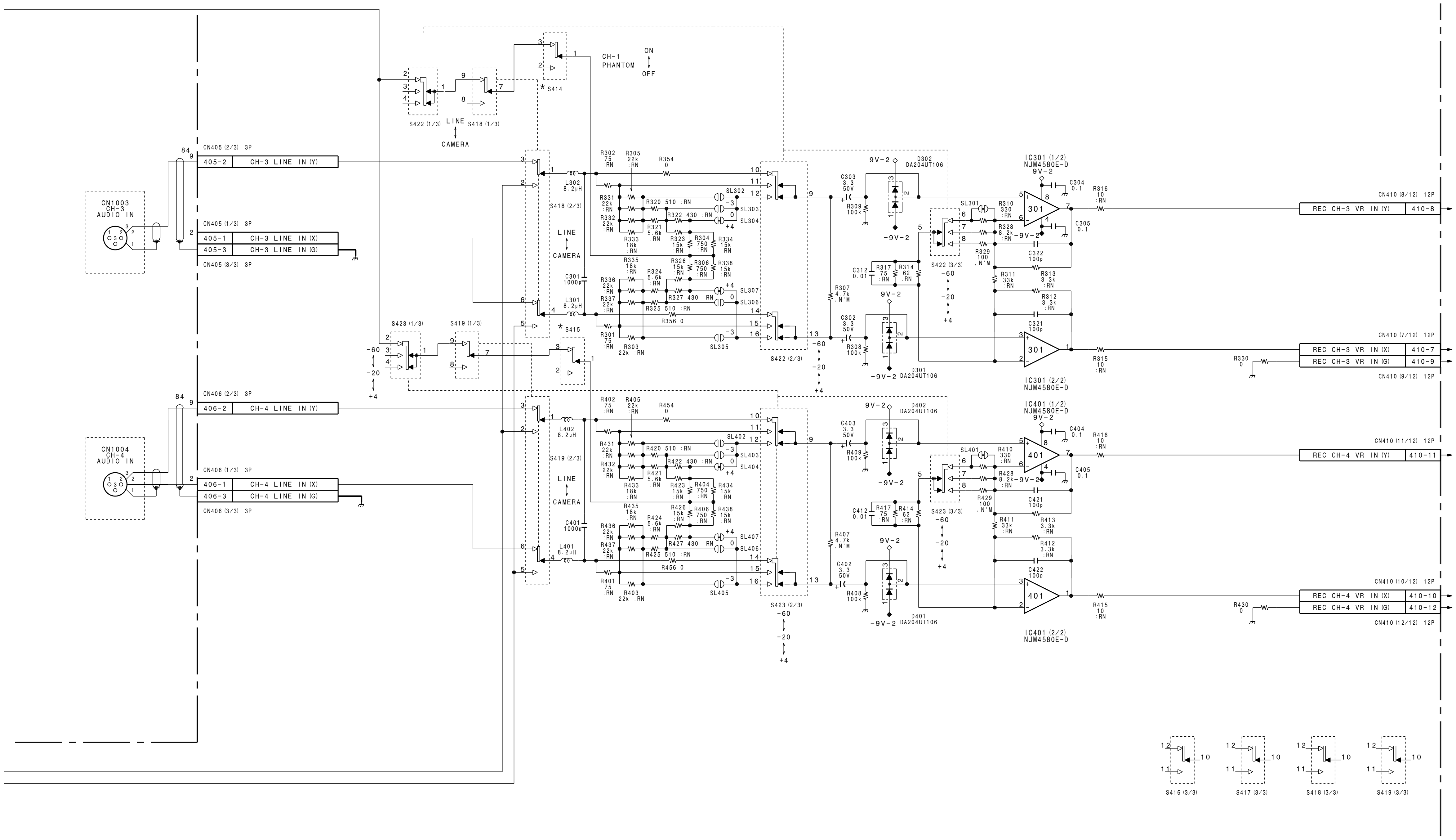

CN1003
CH-3
AUDIO IN
CN1004
CH-4
AUDIO IN
CN405 (2/3) 3P
405-2 CH-3 LINE IN (Y)
CN405 (1/3) 3P
405-1 CH-3 LINE IN (X)
405-3 CH-3 LINE IN (G)
CN405 (3/3) 3P
CN406 (2/3) 3P
406-2 CH-4 LINE IN (Y)
CN406 (1/3) 3P
406-1 CH-4 LINE IN (X)
406-3 CH-4 LINE IN (G)
CN406 (3/3) 3P
CH-1
PHANTOM
ON
OFF
S414
S415
S422 (1/3)
S418 (1/3)
LINE
CAMERA
S418 (2/3)
S419 (2/3)
S423 (1/3)
S419 (1/3)
S422 (2/3)
S422 (3/3)
S423 (2/3)
S423 (3/3)
-60
-20
+4
L302 8.2μH
L301 8.2μH
L402 8.2μH
L401 8.2μH
C301 1000p
C401 1000p
SL301
SL302
SL303
SL304
SL305
SL306
SL307
SL401
SL402
SL403
SL404
SL405
SL406
SL407
9V-2
-9V-2
D301 DA204UT106
D302 DA204UT106
D401 DA204UT106
D402 DA204UT106
IC301 (1/2) NJM4580E-D
IC301 (2/2) NJM4580E-D
IC401 (1/2) NJM4580E-D
IC401 (2/2) NJM4580E-D
301
401
CN410 (8/12) 12P
REC CH-3 VR IN (Y) 410-8
CN410 (7/12) 12P
REC CH-3 VR IN (X) 410-7
REC CH-3 VR IN (G) 410-9
CN410 (9/12) 12P
CN410 (11/12) 12P
REC CH-4 VR IN (Y) 410-11
CN410 (10/12) 12P
REC CH-4 VR IN (X) 410-10
REC CH-4 VR IN (G) 410-12
CN410 (12/12) 12P
ADA CN551
R330 0
R430 0
S416 (3/3)
S417 (3/3)
S418 (3/3)
S419 (3/3)

* J MODEL
NO M'T

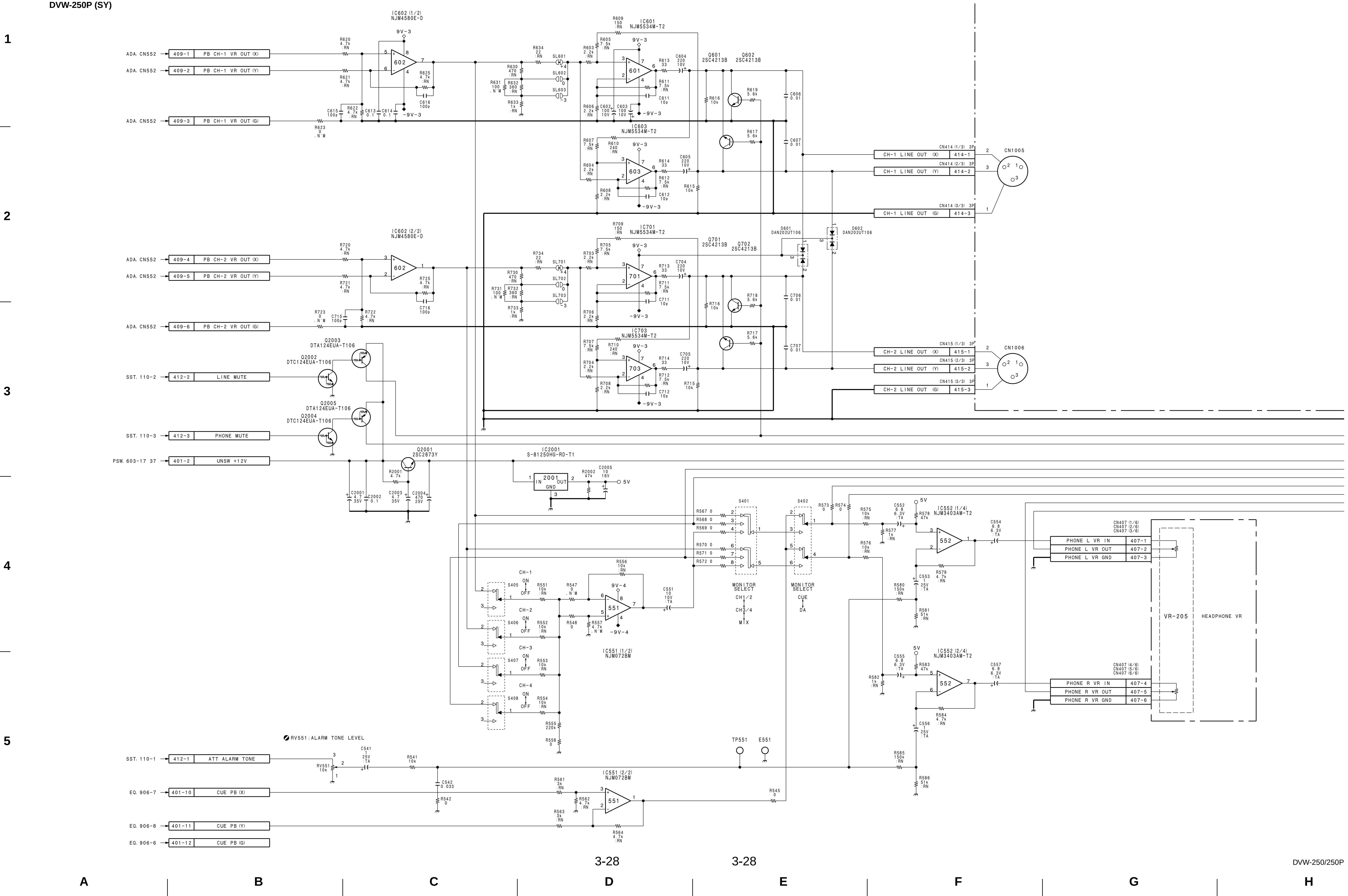
S412
S413
S414
S415

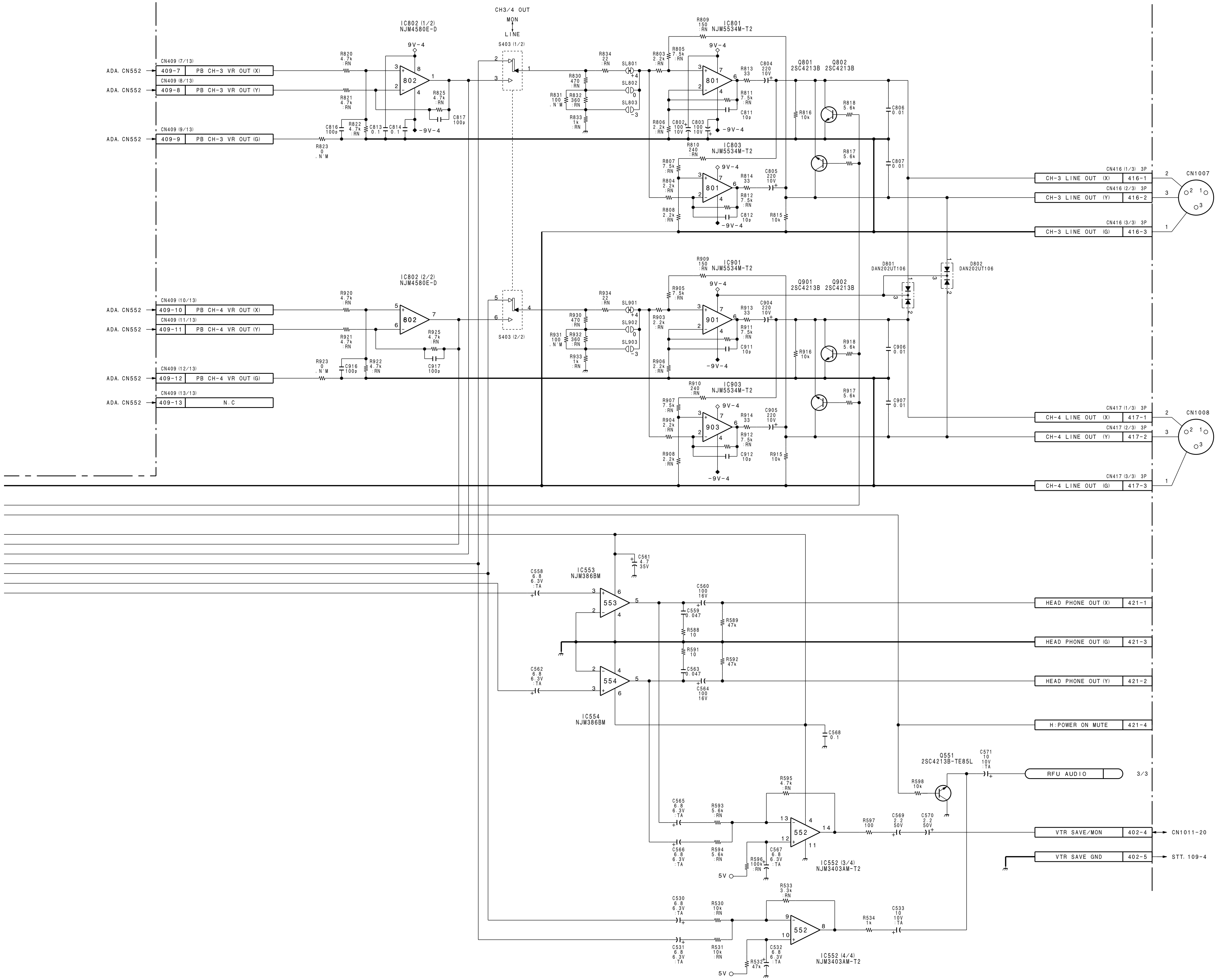
AUDIO INPUT/OUTPUT, PANEL SWITCHES

CP-260 (1/3)

BOARD NO. 1-657-812-11
LOT NO. 409-
B-¥DVW250-CP260-11

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


1
2
3
4
5
A
B
C
D
E
F
G
H
ADA. CN552 409-1 PB CH-1 VR OUT (X)
ADA. CN552 409-2 PB CH-1 VR OUT (Y)
ADA. CN552 409-3 PB CH-1 VR OUT (G)
ADA. CN552 409-4 PB CH-2 VR OUT (X)
ADA. CN552 409-5 PB CH-2 VR OUT (Y)
ADA. CN552 409-6 PB CH-2 VR OUT (G)
SST. 110-2 412-2 LINE MUTE
SST. 110-3 412-3 PHONE MUTE
PSW. 603-17 37 401-2 UNSW +12V
SST. 110-1 412-1 ATT ALARM TONE
EQ. 906-7 401-10 CUE PB (X)
EQ. 906-8 401-11 CUE PB (Y)
EQ. 906-6 401-12 CUE PB (G)
IC602 (1/2) NJM4580E-D
IC602 (2/2) NJM4580E-D
IC601 NJM5534M-T2
IC603 NJM5534M-T2
IC701 NJM5534M-T2
IC703 NJM5534M-T2
Q601 2SC4213B
Q602 2SC4213B
Q701 2SC4213B
Q702 2SC4213B
D601 DAN202UT106
D602 DAN202UT106
Q2003 DTA124EUA-T106
Q2002 DTC124EUA-T106
Q2005 DTA124EUA-T106
Q2004 DTC124EUA-T106
Q2001 2SC2873Y
IC2001 S-81250HG-RD-T1
IN 2001 OUT GND
5V
9V-3
-9V-3
9V-4
-9V-4
SL601 SL602 SL603
SL701 SL702 SL703
CH-1 LINE OUT (X) 414-1
CH-1 LINE OUT (Y) 414-2
CH-1 LINE OUT (G) 414-3
CN414 (1/3) 3P
CN414 (2/3) 3P
CN414 (3/3) 3P
CN1005
CH-2 LINE OUT (X) 415-1
CH-2 LINE OUT (Y) 415-2
CH-2 LINE OUT (G) 415-3
CN415 (1/3) 3P
CN415 (2/3) 3P
CN415 (3/3) 3P
CN1006
S401 MONITOR SELECT CH1/2 CH3/4 MIX
S402 MONITOR SELECT CUE DA
S405 CH-1 ON OFF
S406 CH-2 ON OFF
S407 CH-3 ON OFF
S408 CH-4 ON OFF
IC551 (1/2) NJM072BM
IC551 (2/2) NJM072BM
IC552 (1/4) NJM3403AM-T2
IC552 (2/4) NJM3403AM-T2
CN407 (1/6) CN407 (2/6) CN407 (3/6)
PHONE L VR IN 407-1
PHONE L VR OUT 407-2
PHONE L VR GND 407-3
CN407 (4/6) CN407 (5/6) CN407 (6/6)
PHONE R VR IN 407-4
PHONE R VR OUT 407-5
PHONE R VR GND 407-6
VR-205
HEADPHONE VR
RV551:ALARM TONE LEVEL
RV551 10k
TP551
E551

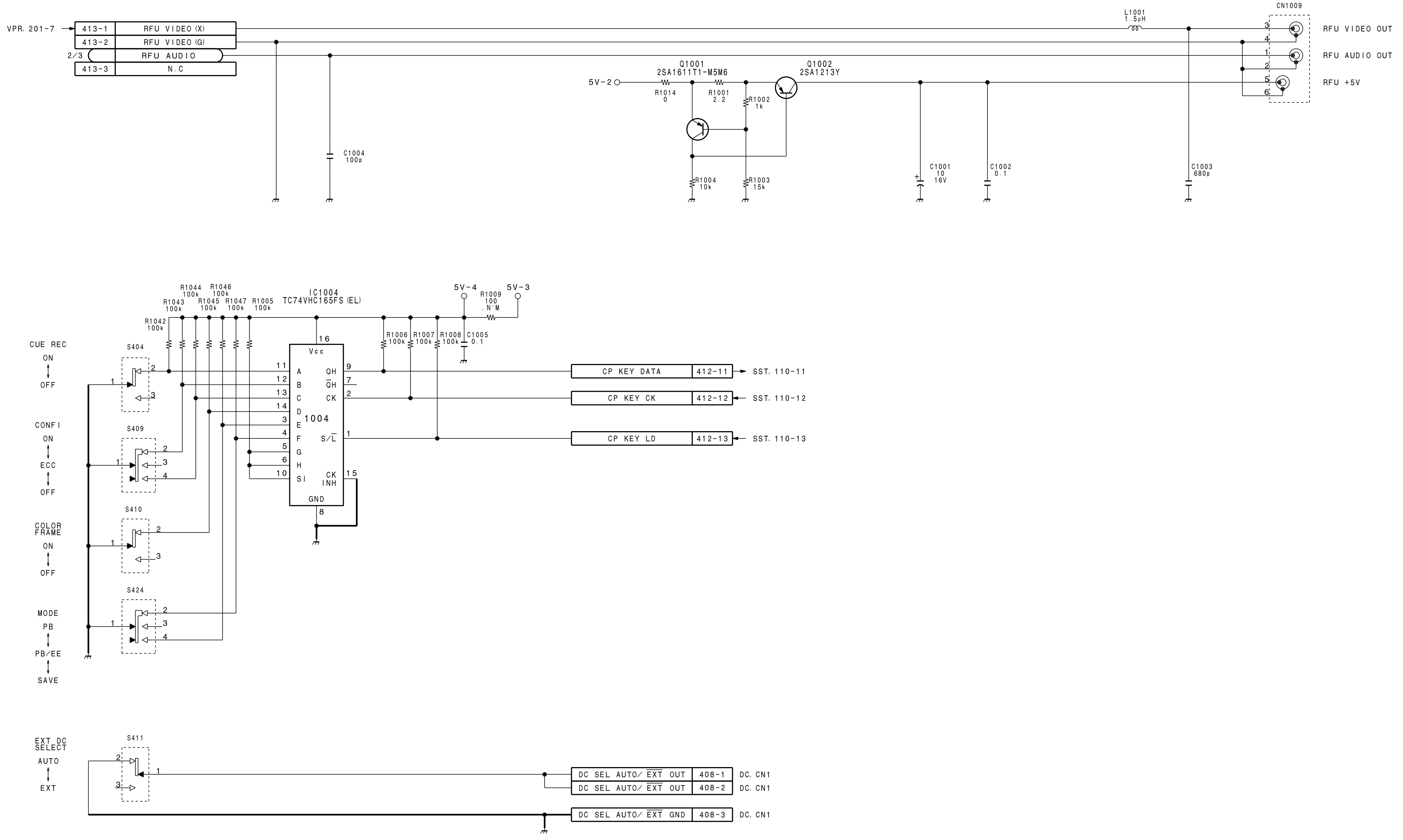

ADA. CN552
CN409 (7/13)
409-7 PB CH-3 VR OUT (X)
CN409 (8/13)
409-8 PB CH-3 VR OUT (Y)
CN409 (9/13)
409-9 PB CH-3 VR OUT (G)
CN409 (10/13)
409-10 PB CH-4 VR OUT (X)
CN409 (11/13)
409-11 PB CH-4 VR OUT (Y)
CN409 (12/13)
409-12 PB CH-4 VR OUT (G)
CN409 (13/13)
409-13 N.C
IC802 (1/2) NJM4580E-D
IC802 (2/2) NJM4580E-D
9V-4
-9V-4
CH3/4 OUT
MON
LINE
S403 (1/2)
S403 (2/2)
SL801
SL802
SL803
SL901
SL902
SL903
IC801 NJM5534M-T2
IC803 NJM5534M-T2
IC901 NJM5534M-T2
IC903 NJM5534M-T2
Q801 2SC4213B
Q802 2SC4213B
Q901 2SC4213B
Q902 2SC4213B
D801 DAN202UT106
D802 DAN202UT106
CN416 (1/3) 3P
CH-3 LINE OUT (X) 416-1
CN416 (2/3) 3P
CH-3 LINE OUT (Y) 416-2
CN416 (3/3) 3P
CH-3 LINE OUT (G) 416-3
CN1007
CN417 (1/3) 3P
CH-4 LINE OUT (X) 417-1
CN417 (2/3) 3P
CH-4 LINE OUT (Y) 417-2
CN417 (3/3) 3P
CH-4 LINE OUT (G) 417-3
CN1008
IC553 NJM386BM
IC554 NJM386BM
HEAD PHONE OUT (X) 421-1
HEAD PHONE OUT (G) 421-3
HEAD PHONE OUT (Y) 421-2
H:POWER ON MUTE 421-4
Q551 2SC4213B-TE85L
RFU AUDIO 3/3
VTR SAVE/MON 402-4 CN1011-20
VTR SAVE GND 402-5 STT. 109-4
IC552 (3/4) NJM3403AM-T2
IC552 (4/4) NJM3403AM-T2
5V
1
2
3
4
5
I
J
K
L
M
N
O
P

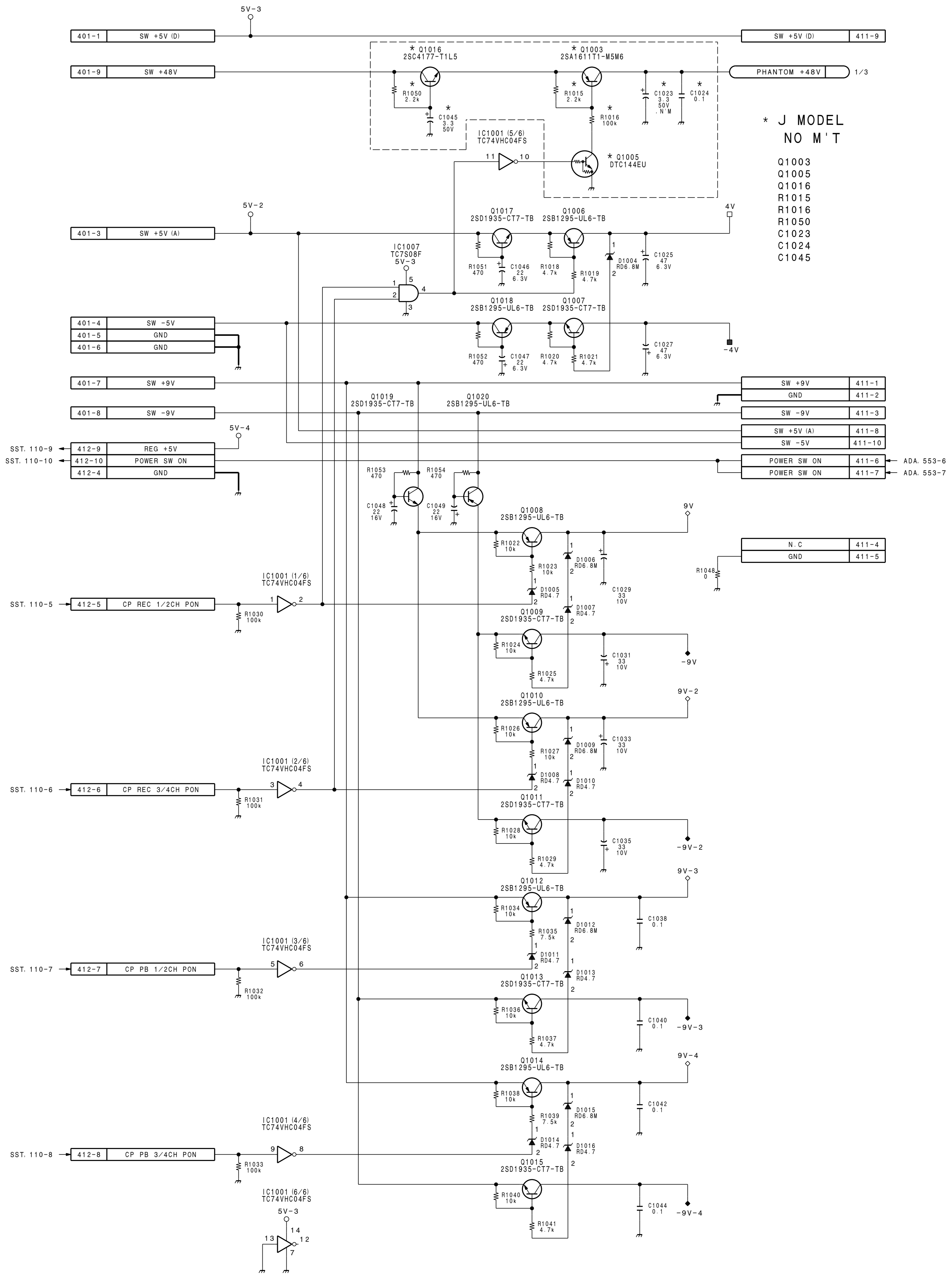
AUDIO INPUT/OUTPUT, PANEL SWITCHES

CP-260 (2/3)

BOARD NO. 1-657-812-11
LOT NO. 409-
B-¥DVW250-CP260-11

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


VPR, 201-7
413-1 RFU VIDEO (X)
413-2 RFU VIDEO (G)
2/3 RFU AUDIO
413-3 N.C
C1004 100p
Q1001 2SA1611T1-M5M6
Q1002 2SA1213Y
5V-2
R1014 0
R1001 2.2
R1002 1k
R1004 10k
R1003 15k
C1001 10 16V
C1002 0.1
L1001 1.5μH
C1003 680p
CN1009
3
4
1
2
5
6
RFU VIDEO OUT
RFU AUDIO OUT
RFU +5V
R1044 100k
R1046 100k
R1043 100k
R1045 100k
R1047 100k
R1005 100k
R1042 100k
IC1004 TC74VHC165FS (EL)
5V-4
5V-3
R1009 100 , N'M
R1006 100k
R1007 100k
R1008 100k
C1005 0.1
16
Vcc
11 A
12 B
13 C
14 D
3 E
4 F
5 G
6 H
10 SI
1004
QH 9
QH 7
CK 2
S/L 1
CK INH 15
GND 8
CP KEY DATA 412-11 SST, 110-11
CP KEY CK 412-12 SST, 110-12
CP KEY LD 412-13 SST, 110-13
CUE REC ON ↕ OFF
S404
CONFI ON ↕ ECC ↕ OFF
S409
COLOR FRAME ON ↕ OFF
S410
MODE PB ↕ PB/EE ↕ SAVE
S424
EXT DC SELECT AUTO ↕ EXT
S411
DC SEL AUTO/EXT OUT 408-1 DC, CN1
DC SEL AUTO/EXT OUT 408-2 DC, CN1
DC SEL AUTO/EXT GND 408-3 DC, CN1


5V-3
401-1 SW +5V (D)
SW +5V (D) 411-9
401-9 SW +48V
PHANTOM +48V 1/3
* Q1016 2SC4177-T1L5
* Q1003 2SA1611T1-M5M6
R1050 2.2k
C1045 3.3 50V
R1015 2.2k
R1016 100k
C1023 3.3 50V :N'M
C1024 0.1
IC1001 (5/6) TC74VHC04FS
* Q1005 DTC144EU
* J MODEL
NO M'T
Q1003
Q1005
Q1016
R1015
R1016
R1050
C1023
C1024
C1045
5V-2
401-3 SW +5V (A)
4V
Q1017 2SD1935-CT7-TB
Q1006 2SB1295-UL6-TB
IC1007 TC7S08F 5V-3
R1051 470
C1046 22 6.3V
R1018 4.7k
R1019 4.7k
D1004 RD6.8M
C1025 47 6.3V
Q1018 2SB1295-UL6-TB
Q1007 2SD1935-CT7-TB
401-4 SW -5V
401-5 GND
401-6 GND
-4V
R1052 470
C1047 22 6.3V
R1020 4.7k
R1021 4.7k
C1027 47 6.3V
401-7 SW +9V
SW +9V 411-1
GND 411-2
401-8 SW -9V
SW -9V 411-3
Q1019 2SD1935-CT7-TB
Q1020 2SB1295-UL6-TB
SW +5V (A) 411-8
SW -5V 411-10
5V-4
SST. 110-9 412-9 REG +5V
SST. 110-10 412-10 POWER SW ON
412-4 GND
POWER SW ON 411-6 ADA. 553-6
POWER SW ON 411-7 ADA. 553-7
R1053 470
R1054 470
C1048 22 16V
C1049 22 16V
Q1008 2SB1295-UL6-TB
9V
N.C 411-4
GND 411-5
R1048 0
R1022 10k
R1023 10k
D1006 RD6.8M
D1005 RD4.7
C1029 33 10V
IC1001 (1/6) TC74VHC04FS
SST. 110-5 412-5 CP REC 1/2CH PON
R1030 100k
Q1009 2SD1935-CT7-TB
D1007 RD4.7
R1024 10k
R1025 4.7k
C1031 33 10V
-9V
Q1010 2SB1295-UL6-TB
9V-2
R1026 10k
R1027 10k
D1009 RD6.8M
C1033 33 10V
D1008 RD4.7
D1010 RD4.7
IC1001 (2/6) TC74VHC04FS
SST. 110-6 412-6 CP REC 3/4CH PON
R1031 100k
Q1011 2SD1935-CT7-TB
R1028 10k
R1029 4.7k
C1035 33 10V
-9V-2
Q1012 2SB1295-UL6-TB
9V-3
R1034 10k
R1035 7.5k
D1012 RD6.8M
C1038 0.1
D1011 RD4.7
D1013 RD4.7
IC1001 (3/6) TC74VHC04FS
SST. 110-7 412-7 CP PB 1/2CH PON
R1032 100k
Q1013 2SD1935-CT7-TB
R1036 10k
R1037 4.7k
C1040 0.1
-9V-3
Q1014 2SB1295-UL6-TB
9V-4
R1038 10k
R1039 7.5k
D1015 RD6.8M
C1042 0.1
D1014 RD4.7
D1016 RD4.7
IC1001 (4/6) TC74VHC04FS
SST. 110-8 412-8 CP PB 3/4CH PON
R1033 100k
Q1015 2SD1935-CT7-TB
R1040 10k
R1041 4.7k
C1044 0.1
-9V-4
IC1001 (6/6) TC74VHC04FS
5V-3

AUDIO INPUT/OUTPUT, PANEL SWITCHES

CP-260 (3/3)

BOARD NO. 1-657-812-11
LOT NO. 409-
B-¥DVW250-CP260-11

ADA-44 (1/3)

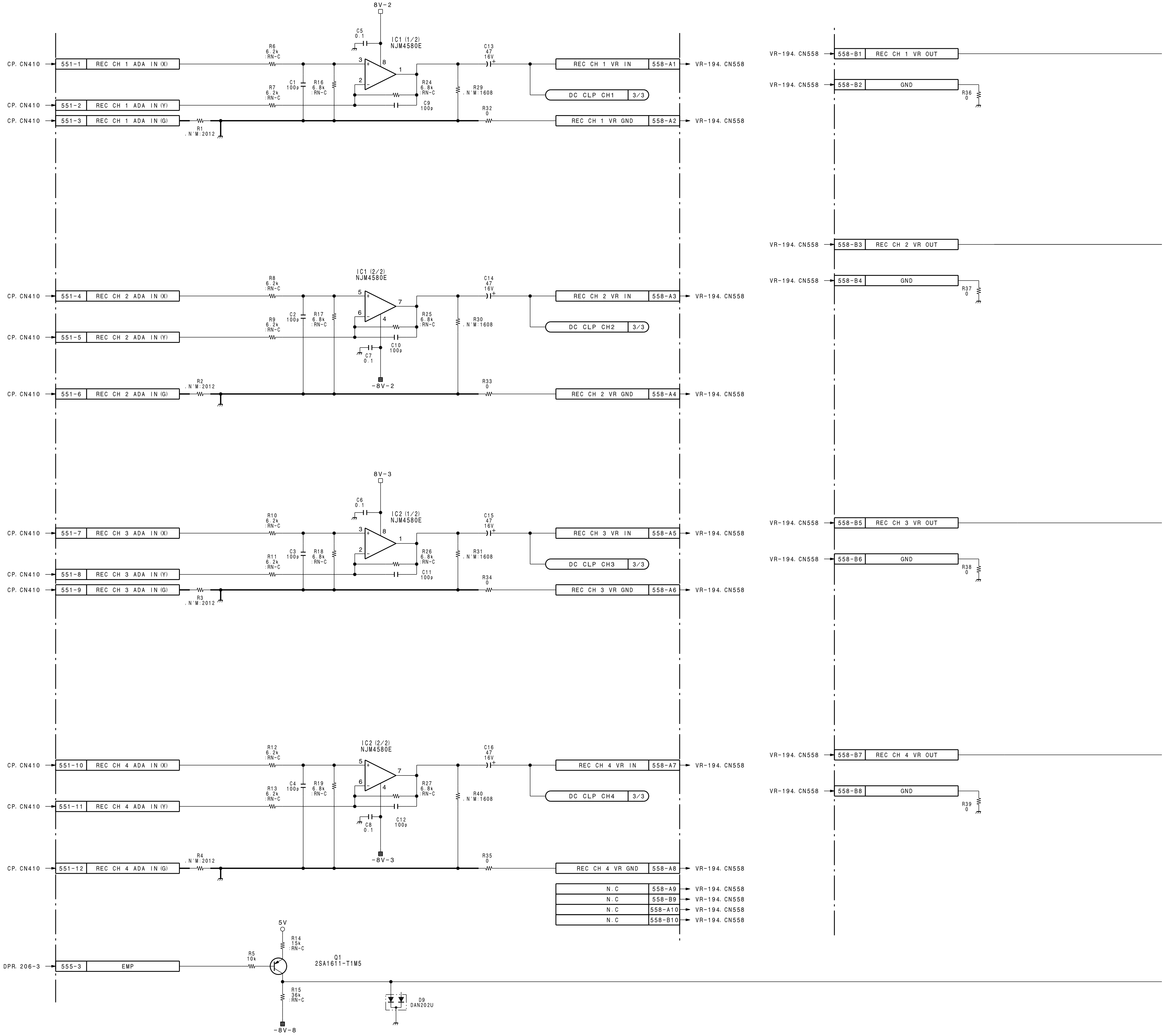
ADA-44 (1/3)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

ADA-44 (1-657-810-11)

CN551	M1
CN552	L1
CN553	J1
CN554	E3
CN555	D3
CN556	B3
CN557	∗R1
CN558	N2
CN559	D3
D1	∗J2
D2	∗J2
D3	∗H3
D4	∗H2
D5	∗J2
D6	∗H2
D7	∗J3
D8	∗H3
D9	∗J1
D201	∗D1
D202	∗E1
D351	∗R3
D354	∗G1
D355	∗F1
D356	∗H1
D357	∗H1
D358	∗J1
D359	H1
D360	H1
D361	∗G1
D362	∗H1
E1	F1
E2	A1
IC1	∗N2
IC2	∗L1
IC3	∗N1
IC4	∗M1
IC5	∗K3
IC6	∗K2
IC7	∗L1
IC8	∗K1
IC9	H3
IC10	J3
IC11	G2
IC12	G1
IC201	A3
IC202	A2
IC203	∗B1
IC204	∗C1
IC205	∗C2
IC206	∗D2
IC207	∗D2
IC208	∗E2
IC209	∗D1
IC210	∗E1
IC310	∗F1
IC351	R3
IC352	∗R1
IC353	∗P1
IC354	F3
IC355	F2
IC356	∗R2
IC357	∗G2
IC358	∗G2
IC359	∗F2
IC360	∗F2
IC361	∗R1
Q1	K1
Q2	K2
Q3	K2
Q4	L1
Q5	∗L1
Q201	∗D1
Q202	∗D1
Q203	∗E1
Q204	∗E1
Q205	∗D1
Q206	∗D1
Q207	∗E1
Q208	∗F1
Q351	∗L1
Q352	∗L1
Q353	L1
Q354	∗M1
Q355	∗L1
Q356	∗L1
Q357	∗M1
Q358	∗M1
Q359	∗L1
Q360	∗L1
Q361	∗H1
Q362	∗J1
Q364	∗H1
Q365	∗J1
Q366	∗G1
Q367	∗J1
Q368	∗G1
Q369	∗J1
RV1	∗L3
RV2	∗L2
RV3	∗L2
RV4	∗L2
RV5	∗L3
RV6	∗L2
RV7	∗L2
RV8	∗L2
RV40	L3
RV50	N3
RV60	N3
RV70	P3
RV201	∗A3
RV202	∗A3
RV203	∗A2
RV204	∗A2
RV205	∗C2
RV206	∗D2
RV207	∗E2
RV208	∗E2
S1	R3
T1	K3
T2	K3
T3	K1
T4	K1

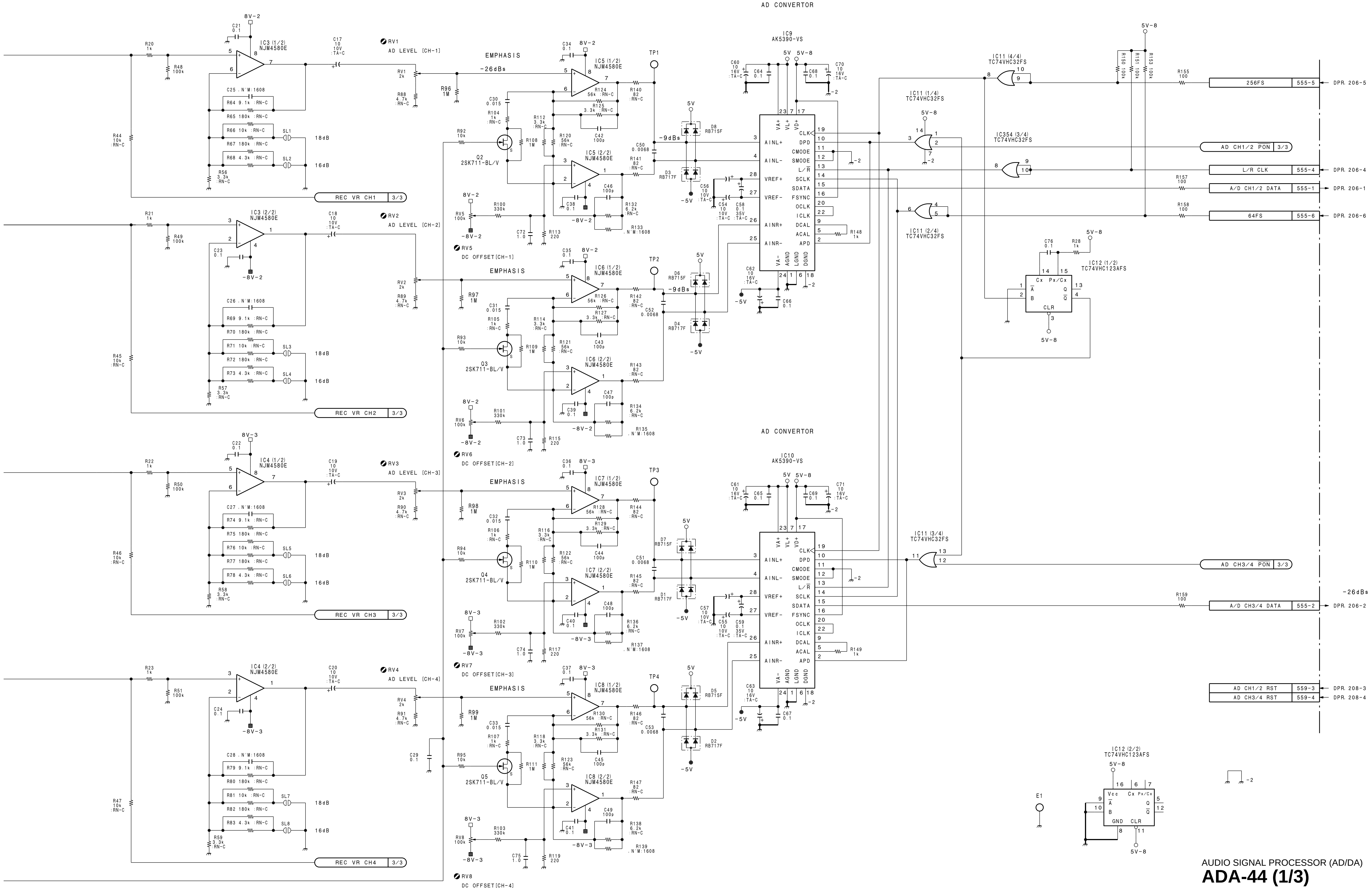
∗ : Soldering Side


8V-2
C5 0.1
IC1 (1/2) NJM4580E
CP, CN410
551-1 REC CH 1 ADA IN (X)
551-2 REC CH 1 ADA IN (Y)
551-3 REC CH 1 ADA IN (G)
R1 ,N'M:2012
R6 6.2k :RN-C
R7 6.2k :RN-C
C1 100p
R16 6.8k :RN-C
R24 6.8k :RN-C
C9 100p
C13 47 16V
R29 ,N'M:1608
R32 0
REC CH 1 VR IN 558-A1
DC CLP CH1 3/3
REC CH 1 VR GND 558-A2
VR-194, CN558
558-B1 REC CH 1 VR OUT
558-B2 GND
R36 0
IC1 (2/2) NJM4580E
551-4 REC CH 2 ADA IN (X)
551-5 REC CH 2 ADA IN (Y)
551-6 REC CH 2 ADA IN (G)
R8 6.2k :RN-C
R9 6.2k :RN-C
C2 100p
R17 6.8k :RN-C
R25 6.8k :RN-C
C7 0.1
C10 100p
-8V-2
R2 ,N'M:2012
C14 47 16V
R30 ,N'M:1608
R33 0
REC CH 2 VR IN 558-A3
DC CLP CH2 3/3
REC CH 2 VR GND 558-A4
558-B3 REC CH 2 VR OUT
558-B4 GND
R37 0
8V-3
C6 0.1
IC2 (1/2) NJM4580E
551-7 REC CH 3 ADA IN (X)
551-8 REC CH 3 ADA IN (Y)
551-9 REC CH 3 ADA IN (G)
R10 6.2k :RN-C
R11 6.2k :RN-C
C3 100p
R18 6.8k :RN-C
R26 6.8k :RN-C
C11 100p
R3 ,N'M:2012
C15 47 16V
R31 ,N'M:1608
R34 0
REC CH 3 VR IN 558-A5
DC CLP CH3 3/3
REC CH 3 VR GND 558-A6
558-B5 REC CH 3 VR OUT
558-B6 GND
R38 0
IC2 (2/2) NJM4580E
551-10 REC CH 4 ADA IN (X)
551-11 REC CH 4 ADA IN (Y)
551-12 REC CH 4 ADA IN (G)
R12 6.2k :RN-C
R13 6.2k :RN-C
C4 100p
R19 6.8k :RN-C
R27 6.8k :RN-C
C8 0.1
C12 100p
-8V-3
R4 ,N'M:2012
C16 47 16V
R40 ,N'M:1608
R35 0
REC CH 4 VR IN 558-A7
DC CLP CH4 3/3
REC CH 4 VR GND 558-A8
558-B7 REC CH 4 VR OUT
558-B8 GND
R39 0
N.C 558-A9
N.C 558-B9
N.C 558-A10
N.C 558-B10
DPR, 206-3
555-3 EMP
5V
R5 10k
R14 15k :RN-C
Q1 2SA1611-T1M5
R15 36k :RN-C
-8V-8
D9 DAN202U

1
2
3
4
5

3-32

A B C D E F G H


AD CONVERTOR
IC9
AK5390-VS
IC10
AK5390-VS
IC3 (1/2) NJM4580E
IC3 (2/2) NJM4580E
IC4 (1/2) NJM4580E
IC4 (2/2) NJM4580E
IC5 (1/2) NJM4580E
IC5 (2/2) NJM4580E
IC6 (1/2) NJM4580E
IC6 (2/2) NJM4580E
IC7 (1/2) NJM4580E
IC7 (2/2) NJM4580E
IC8 (1/2) NJM4580E
IC8 (2/2) NJM4580E
IC11 (1/4) TC74VHC32FS
IC11 (2/4) TC74VHC32FS
IC11 (3/4) TC74VHC32FS
IC11 (4/4) TC74VHC32FS
IC354 (3/4) TC74VHC32FS
IC12 (1/2) TC74VHC123AFS
IC12 (2/2) TC74VHC123AFS
RV1 AD LEVEL [CH-1]
RV2 AD LEVEL [CH-2]
RV3 AD LEVEL [CH-3]
RV4 AD LEVEL [CH-4]
RV5 DC OFFSET[CH-1]
RV6 DC OFFSET(CH-2)
RV7 DC OFFSET(CH-3)
RV8 DC OFFSET[CH-4]
EMPHASIS
-26dBs
-9dBs
TP1
TP2
TP3
TP4
Q2 2SK711-BL/V
Q3 2SK711-BL/V
Q4 2SK711-BL/V
Q5 2SK711-BL/V
D1 RB717F
D2 RB717F
D3 RB717F
D4 RB717F
D5 RB715F
D6 RB715F
D7 RB715F
D8 RB715F
SL1 SL2 SL3 SL4 SL5 SL6 SL7 SL8
18dB
16dB
REC VR CH1 3/3
REC VR CH2 3/3
REC VR CH3 3/3
REC VR CH4 3/3
8V-2
8V-3
-8V-2
-8V-3
5V
5V-8
-5V
VA+ VL+ VD+
AINL+ AINL- VREF+ VREF- AINR+ AINR-
CLK DPD CMODE SMODE L/R SCLK SDATA FSYNC OCLK ICLK DCAL ACAL APD
VA- AGND LGND DGND
256FS 555-5 DPR. 206-5
AD CH1/2 PON 3/3
L/R CLK 555-4 DPR. 206-4
A/D CH1/2 DATA 555-1 DPR. 206-1
64FS 555-6 DPR. 206-6
AD CH3/4 PON 3/3
-26dBs
A/D CH3/4 DATA 555-2 DPR. 206-2
AD CH1/2 RST 559-3 DPR. 208-3
AD CH3/4 RST 559-4 DPR. 208-4
E1
Cx Px/Cx
CLR
Vcc GND

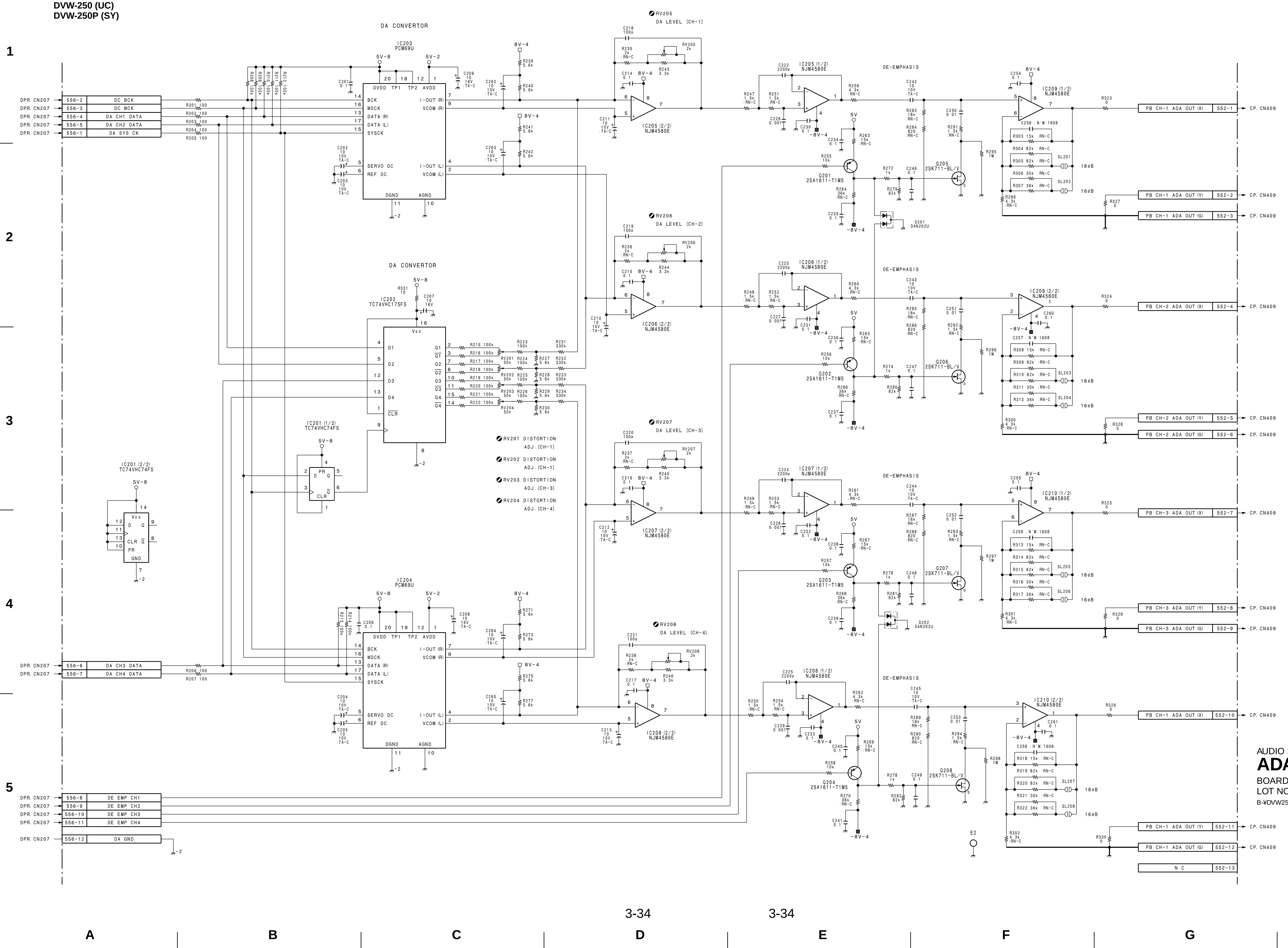
AUDIO SIGNAL PROCESSOR (AD/DA)

ADA-44 (1/3)

BOARD NO. 1-657-810-11
LOT NO. 409-
B-¥DVW250-ADA44-11

ADA-44 (2/3)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


DA CONVERTOR
IC203 PCM69U
5V-8
5V-2
DVDD TP1 TP2 AVDD
BCK
WDCK
DATA (R)
DATA (L)
SYSCK
SERVO DC
REF DC
I-OUT (R)
VCOM (R)
I-OUT (L)
VCOM (L)
DGND AGND
DPR. CN207
556-2 DC BCK
556-3 DC WCK
556-4 DA CH1 DATA
556-5 DA CH2 DATA
556-1 DA SYS CK
DA CONVERTOR
IC202 TC74VHC175FS
IC201 (1/2) TC74VHC74FS
IC201 (2/2) TC74VHC74FS
RV201 DISTORTION ADJ. [CH-1]
RV202 DISTORTION ADJ. [CH-1]
RV203 DISTORTION ADJ. [CH-3]
RV204 DISTORTION ADJ. [CH-4]
RV205 DA LEVEL [CH-1]
RV206 DA LEVEL [CH-2]
RV207 DA LEVEL [CH-3]
RV208 DA LEVEL [CH-4]
IC205 NJM4580E
IC206 NJM4580E
IC207 NJM4580E
IC208 NJM4580E
IC209 NJM4580E
IC210 NJM4580E
DE-EMPHASIS
Q201 2SA1611-T1M5
Q202 2SA1611-T1M5
Q203 2SA1611-T1M5
Q204 2SA1611-T1M5
Q205 2SK711-BL/V
Q206 2SK711-BL/V
Q207 2SK711-BL/V
Q208 2SK711-BL/V
D201 DAN202U
D202 DAN202U
IC204 PCM69U
556-6 DA CH3 DATA
556-7 DA CH4 DATA
556-8 DE EMP CH1
556-9 DE EMP CH2
556-10 DE EMP CH3
556-11 DE EMP CH4
556-12 DA GND
18dB
16dB
PB CH-1 ADA OUT (X) 552-1
PB CH-1 ADA OUT (Y) 552-2
PB CH-1 ADA OUT (G) 552-3
PB CH-2 ADA OUT (X) 552-4
PB CH-2 ADA OUT (Y) 552-5
PB CH-2 ADA OUT (G) 552-6
PB CH-3 ADA OUT (X) 552-7
PB CH-3 ADA OUT (Y) 552-8
PB CH-3 ADA OUT (G) 552-9
PB CH-1 ADA OUT (X) 552-10
PB CH-1 ADA OUT (Y) 552-11
PB CH-1 ADA OUT (G) 552-12
N.C 552-13
CP. CN409
E2
1
2
3
4
5
A
B
C
D
E
F
G
H

AUDIO SIGNAL PROCESSOR (AD/DA)

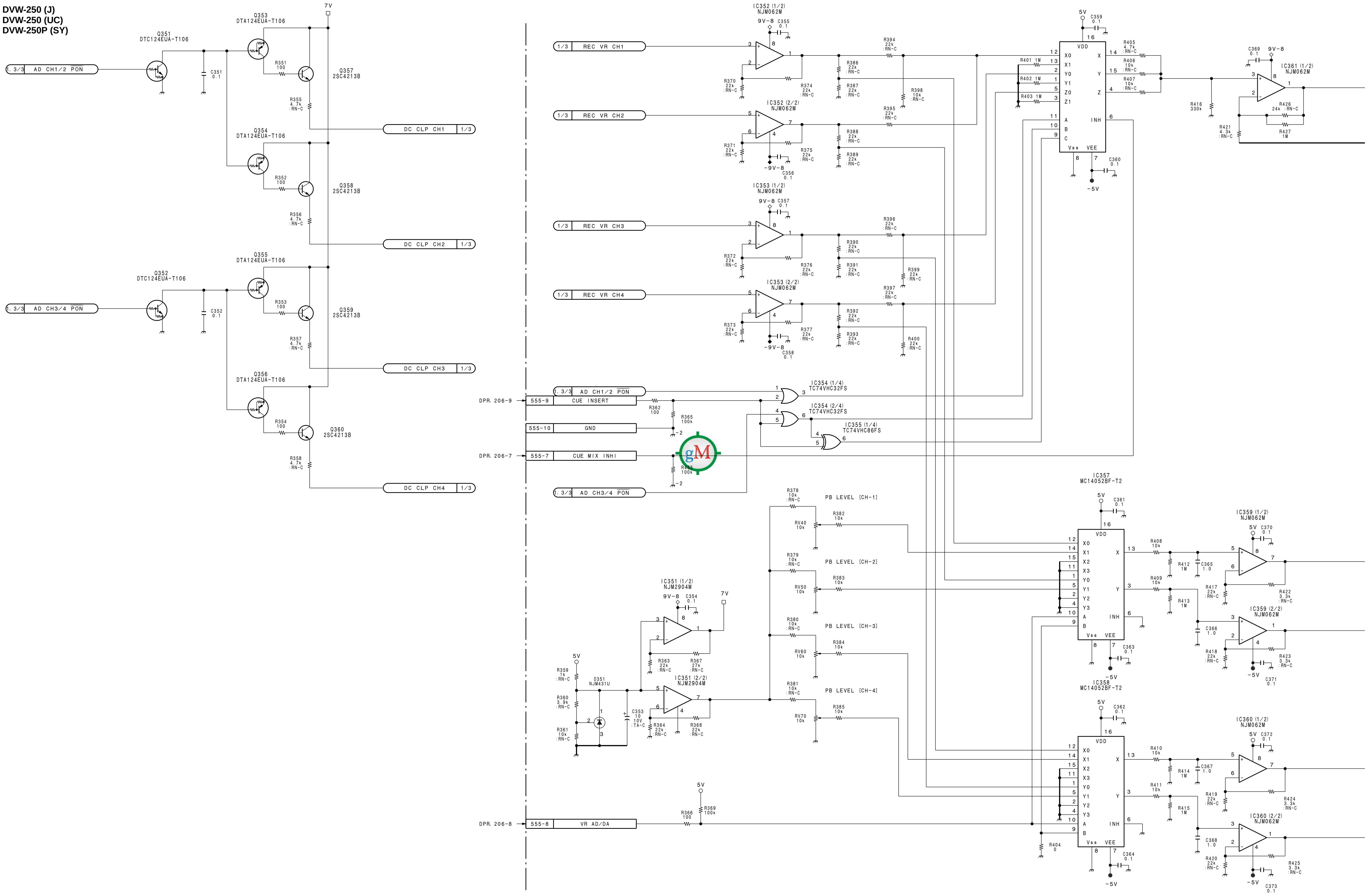
ADA-44 (2/3)

BOARD NO. 1-657-810-11
LOT NO. 409-
B-¥DVW250-ADA44-11

3-34

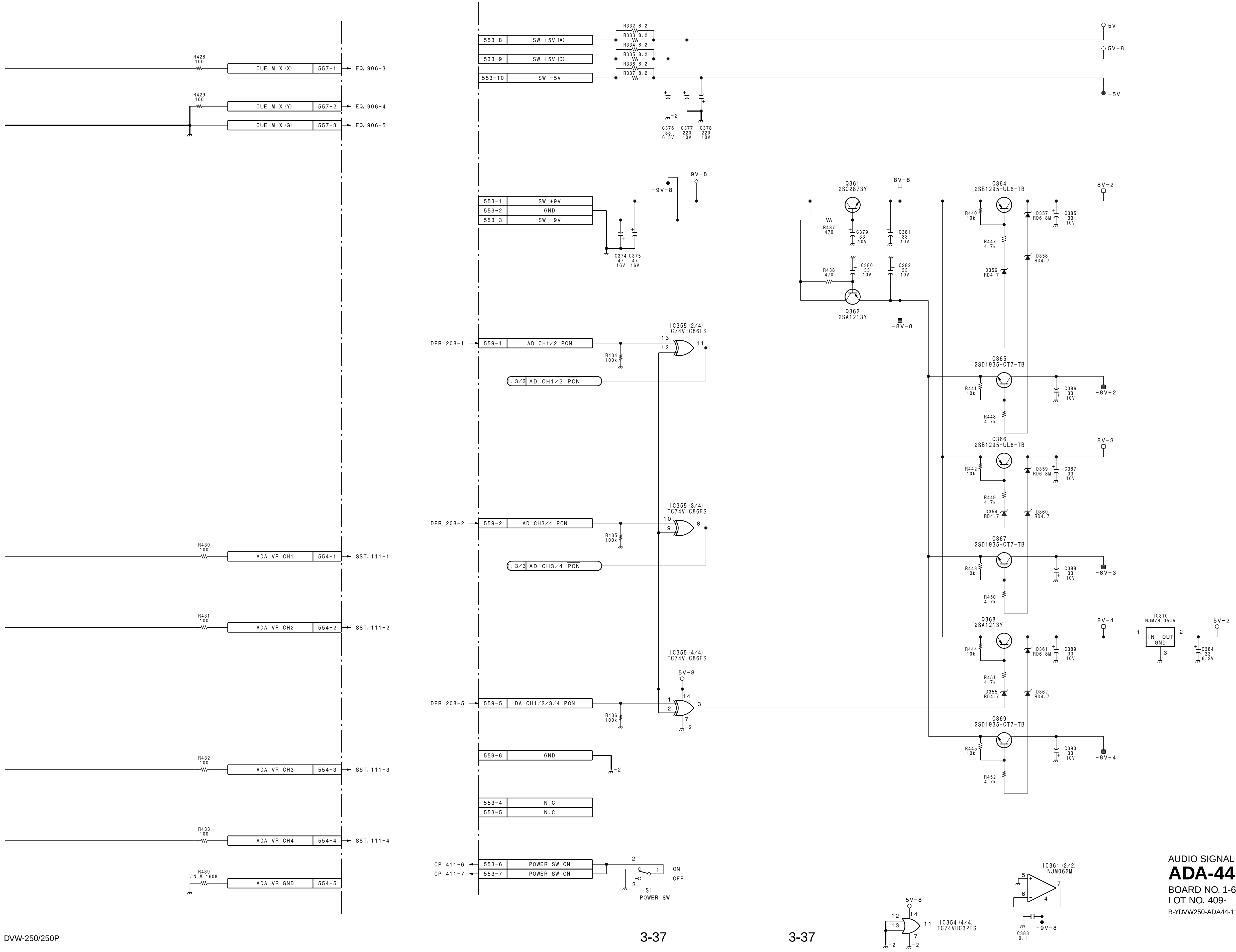
ADA-44 (3/3) ADA-44 (3/3)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)



1
2
3
4
5
7V
Q351
DTC124EUA-T106
Q352
DTC124EUA-T106
Q353
DTA124EUA-T106
Q354
DTA124EUA-T106
Q355
DTA124EUA-T106
Q356
DTA124EUA-T106
Q357
2SC4213B
Q358
2SC4213B
Q359
2SC4213B
Q360
2SC4213B
3/3 AD CH1/2 PON
3/3 AD CH3/4 PON
C351 0.1
C352 0.1
DC CLP CH1 1/3
DC CLP CH2 1/3
DC CLP CH3 1/3
DC CLP CH4 1/3
1/3 REC VR CH1
1/3 REC VR CH2
1/3 REC VR CH3
1/3 REC VR CH4
IC352 (1/2) NJM062M
IC352 (2/2) NJM062M
IC353 (1/2) NJM062M
IC353 (2/2) NJM062M
9V-8
-9V-8
IC356
MC14053BF-T2
5V
-5V
VDD
VSS VEE
X0 X1 Y0 Y1 Z0 Z1
A B C INH
X Y Z
R401 1M
R402 1M
R403 1M
IC361 (1/2) NJM062M
R416 330k
R426 24k
R427 1M
R421 4.3k
DPR. 206-9
555-9 CUE INSERT
555-10 GND
DPR. 206-7
555-7 CUE MIX INHI
3/3 AD CH1/2 PON
3/3 AD CH3/4 PON
R362 100
R365 100k
R363 100k
IC354 (1/4) TC74VHC32FS
IC354 (2/4) TC74VHC32FS
IC355 (1/4) TC74VHC86FS
-2
PB LEVEL [CH-1]
PB LEVEL [CH-2]
PB LEVEL [CH-3]
PB LEVEL [CH-4]
RV40 10k
RV50 10k
RV60 10k
RV70 10k
IC351 (1/2) NJM2904M
IC351 (2/2) NJM2904M
D351 NJM431U
C353 10 10V TA-C
IC357
MC14052BF-T2
IC358
MC14052BF-T2
X0 X1 X2 X3 Y0 Y1 Y2 Y3
IC359 (1/2) NJM062M
IC359 (2/2) NJM062M
IC360 (1/2) NJM062M
IC360 (2/2) NJM062M
DPR. 206-8
555-8 VR AD/DA
R366 100
R369 100k
R404 0

A B C D E F G H



R428 100
CUE MIX (X) 557-1 EQ. 906-3
R429 100
CUE MIX (Y) 557-2 EQ. 906-4
CUE MIX (G) 557-3 EQ. 906-5
R430 100
ADA VR CH1 554-1 SST. 111-1
R431 100
ADA VR CH2 554-2 SST. 111-2
R432 100
ADA VR CH3 554-3 SST. 111-3
R433 100
ADA VR CH4 554-4 SST. 111-4
R439 N.M.1608
ADA VR GND 554-5
553-8 SW +5V (A)
553-9 SW +5V (D)
553-10 SW -5V
R332 8.2
R333 8.2
R334 8.2
R335 8.2
R336 8.2
R337 8.2
5V
5V-8
-5V
C376 33 6.3V
C377 220 10V
C378 220 10V
553-1 SW +9V
553-2 GND
553-3 SW -9V
C374 47 16V
C375 47 16V
-9V-8
9V-8
Q361 2SC2873Y
8V-8
R437 470
R438 470
C379 33 10V
C381 33 10V
C380 33 10V
C382 33 10V
Q362 2SA1213Y
-8V-8
Q364 2SB1295-UL6-TB
8V-2
R440 10k
R447 4.7k
D357 RD6.8M
C385 33 10V
D356 RD4.7
D358 RD4.7
DPR. 208-1
559-1 AD CH1/2 PON
IC355 (2/4) TC74VHC86FS
R434 100k
1.3/3 AD CH1/2 PON
Q365 2SD1935-CT7-TB
R441 10k
R448 4.7k
C386 33 10V
-8V-2
Q366 2SB1295-UL6-TB
8V-3
R442 10k
R449 4.7k
D359 RD6.8M
C387 33 10V
D354 RD4.7
D360 RD4.7
DPR. 208-2
559-2 AD CH3/4 PON
IC355 (3/4) TC74VHC86FS
R435 100k
1.3/3 AD CH3/4 PON
Q367 2SD1935-CT7-TB
R443 10k
R450 4.7k
C388 33 10V
-8V-3
Q368 2SA1213Y
8V-4
R444 10k
R451 4.7k
D361 RD6.8M
C389 33 10V
D355 RD4.7
D362 RD4.7
IC310 NJM78L05UA
IN OUT GND
5V-2
C384 33 6.3V
IC355 (4/4) TC74VHC86FS
5V-8
DPR. 208-5
559-5 DA CH1/2/3/4 PON
R436 100k
Q369 2SD1935-CT7-TB
R445 10k
R452 4.7k
C390 33 10V
-8V-4
559-6 GND
553-4 N.C
553-5 N.C
CP. 411-6
CP. 411-7
553-6 POWER SW ON
553-7 POWER SW ON
ON
OFF
S1 POWER SW.
IC361 (2/2) NJM062M
C383 0.1
-9V-8
5V-8
IC354 (4/4) TC74VHC32FS

AUDIO SIGNAL PROCESSOR (AD/DA)

ADA-44 (3/3)

BOARD NO. 1-657-810-11
LOT NO. 409-
B-¥DVW250-ADA44-11

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

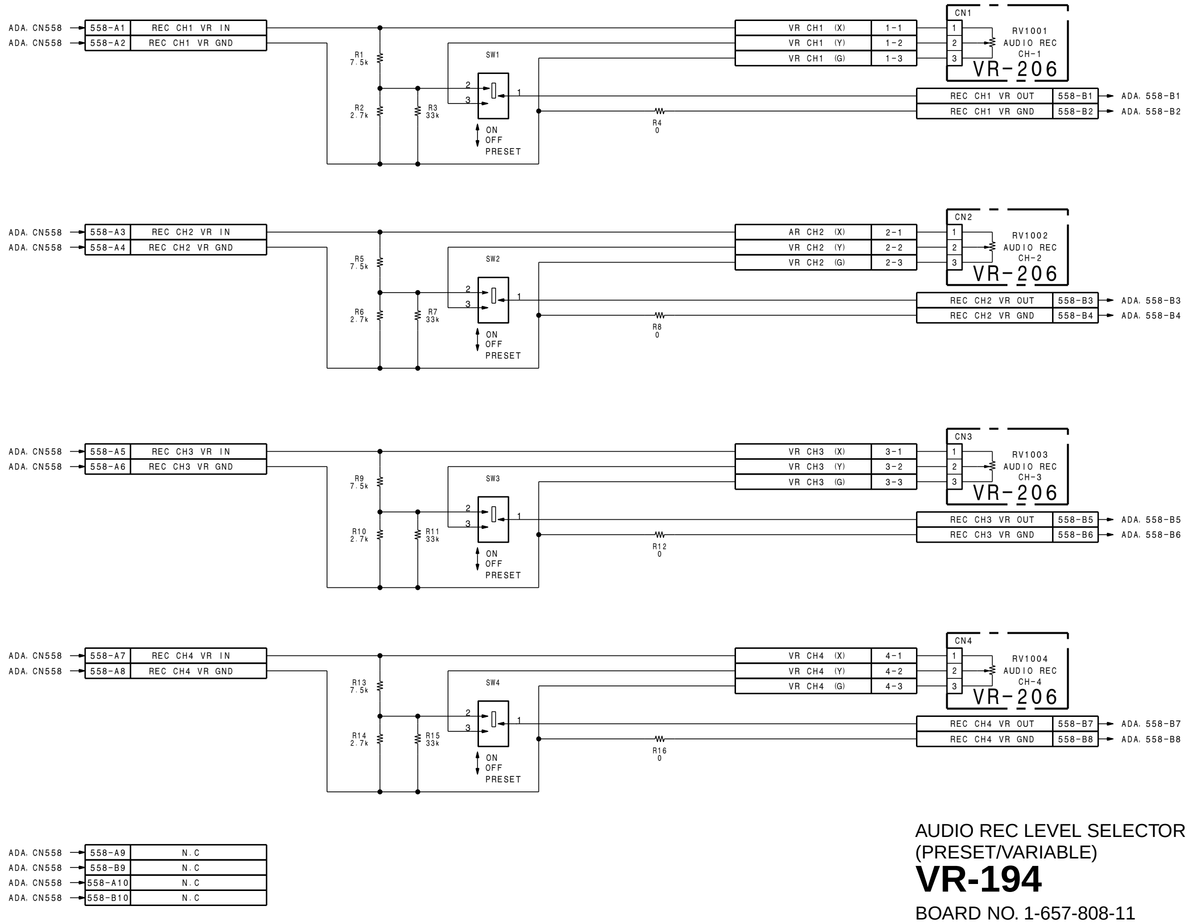
VR-194 (1-657-808-11)

CN1	A2
CN2	A1
CN3	C2
CN4	C1
CN558	∗C2
SW1	A2
SW2	A1
SW3	C2
SW4	C1

∗ : Soldering Side

DUS-339 (1-638-694-11)

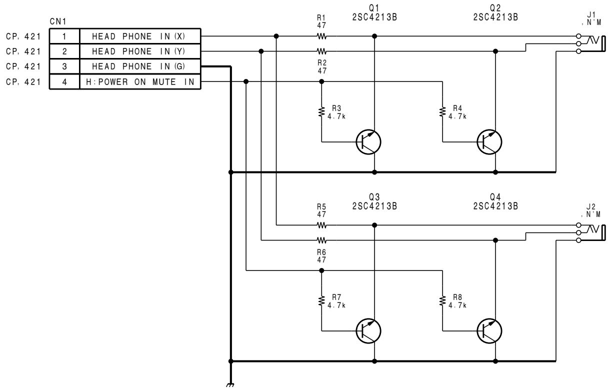
CN432	A1
Q1	A1
Q2	A1
Q3	A1
Q4	A1


ADA, CN558
558-A1
REC CH1 VR IN
558-A2
REC CH1 VR GND
R1 7.5k
R2 2.7k
R3 33k
SW1
ON
OFF
PRESET
R4 0
VR CH1 (X) 1-1
VR CH1 (Y) 1-2
VR CH1 (G) 1-3
CN1
RV1001
AUDIO REC
CH-1
VR-206
REC CH1 VR OUT 558-B1
REC CH1 VR GND 558-B2
ADA, 558-B1
ADA, 558-B2
558-A3
REC CH2 VR IN
558-A4
REC CH2 VR GND
R5 7.5k
R6 2.7k
R7 33k
SW2
R8 0
AR CH2 (X) 2-1
VR CH2 (Y) 2-2
VR CH2 (G) 2-3
CN2
RV1002
AUDIO REC
CH-2
VR-206
REC CH2 VR OUT 558-B3
REC CH2 VR GND 558-B4
ADA, 558-B3
ADA, 558-B4
558-A5
REC CH3 VR IN
558-A6
REC CH3 VR GND
R9 7.5k
R10 2.7k
R11 33k
SW3
R12 0
VR CH3 (X) 3-1
VR CH3 (Y) 3-2
VR CH3 (G) 3-3
CN3
RV1003
AUDIO REC
CH-3
VR-206
REC CH3 VR OUT 558-B5
REC CH3 VR GND 558-B6
ADA, 558-B5
ADA, 558-B6
558-A7
REC CH4 VR IN
558-A8
REC CH4 VR GND
R13 7.5k
R14 2.7k
R15 33k
SW4
R16 0
VR CH4 (X) 4-1
VR CH4 (Y) 4-2
VR CH4 (G) 4-3
CN4
RV1004
AUDIO REC
CH-4
VR-206
REC CH4 VR OUT 558-B7
REC CH4 VR GND 558-B8
ADA, 558-B7
ADA, 558-B8
558-A9 N.C
558-B9 N.C
558-A10 N.C
558-B10 N.C

AUDIO REC LEVEL SELECTOR
(PRESET/VARIABLE)

VR-194

BOARD NO. 1-657-808-11
LOT NO. 409-
B-¥DVW250-VR194-11


CN1
CP, 421
1 HEAD PHONE IN (X)
2 HEAD PHONE IN (Y)
3 HEAD PHONE IN (G)
4 H:POWER ON MUTE IN
R1 47
R2 47
R3 4.7k
R4 4.7k
Q1 2SC4213B
Q2 2SC4213B
J1 , N'M
R5 47
R6 47
R7 4.7k
R8 4.7k
Q3 2SC4213B
Q4 2SC4213B
J2 , N'M

HEAD PHONE CONNECTOR

DUS-339

BOARD NO. 1-638-694-13
LOT NO. 409-
B-¥DVW250-DUS339-11

DPR-62 (1/17)

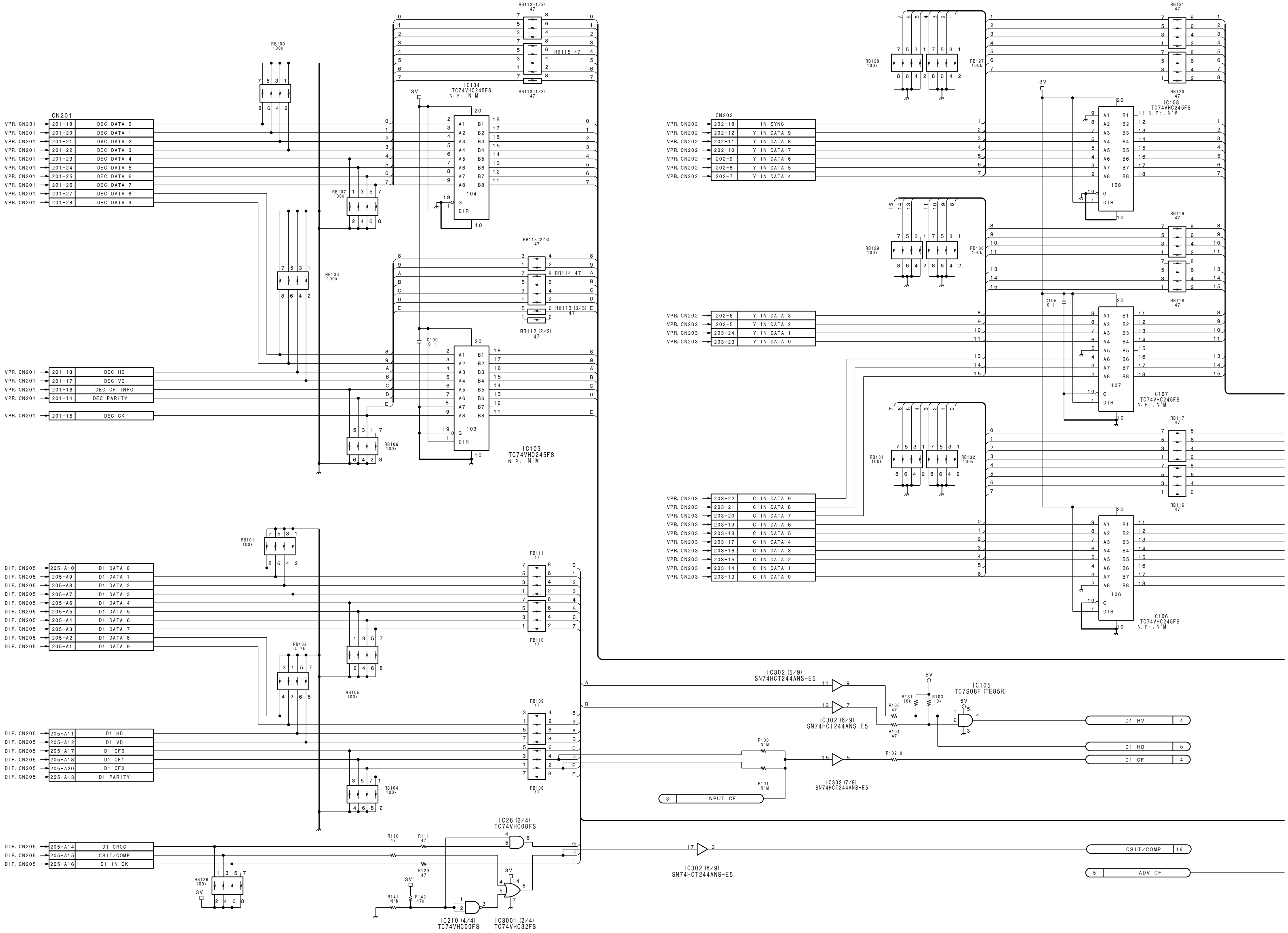
DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

DPR-62 (1-657-806-11)

CN201	∗J2
CN202	∗J4
CN203	∗J6
CN204	∗J8
CN205	D6
CN206	H2
CN207	H2
CN208	H3
CN211	E3
CN212	E5
CN213	E6
CN908	A9
CN909	A7
CN910	A5
CN911	A3
CP100	H5
CP200	G9
CP1100	∗B9
CP1300	E1
CP1301	B2
CP1302	B1
D200	∗H9
D301	∗G5
D302	∗G5
D303	∗G5
D304	∗F5
D305	∗H5
D1001	∗D7
D1100	∗B6
D1101	∗C9
D1102	∗E9
D1300	∗E1
D1301	∗E2
D1302	D2
D1303	∗E2
D1304	∗D2
D1305	∗C1
D1306	∗C1
D1307	∗B1
D1308	∗C1
D1400	B1
E1100	∗A9
E1300	D2
E1301	∗E3
E1500	∗J8
E1501	H6
E1502	∗D5
E1503	H1
FB1	∗A9
FB2	∗A3
FB101	∗H5
FB201	∗H9
FB1301	∗E1
FB1303	∗B2
FB1304	∗B1
IC4	∗E8
IC20	∗E7
IC21	∗E7
IC22	∗E7
IC25	∗E8
IC26	D8
IC103	J7
IC104	J7
IC105	∗F6
IC106	∗G6
IC107	∗H6
IC108	∗H6
IC111	∗H7
IC112	∗H5
IC113	H5
IC114	∗H8
IC116	∗F7
IC117	∗F8
IC118	∗F8
IC119	∗F8
IC120	∗F8
IC200	∗H9
IC201	∗H9
IC202	∗G9
IC203	∗G9
IC204	∗G9
IC205	G8
IC206	∗H8
IC207	∗H8
IC208	J9
IC209	∗G8
IC210	F9
IC211	∗H9
IC212	∗H8
IC213	∗H9
IC214	∗H9
IC300	∗G6
IC301	E6
IC302	∗F6
IC303	∗G6
IC304	H5
IC305	G5
IC306	∗G6
IC307	∗G5
IC308	G7
IC309	∗G7
IC310	F6
IC311	F7
IC312	F8
IC313	∗G7
IC314	E6
IC316	∗F6
IC500	F2
IC501	∗G3
IC502	G2
IC503	∗H2
IC600	H2
IC601	G2
IC602	G2
IC603	∗H2
IC604	∗G2
IC605	∗H1
IC606	∗G1
IC700	E4
IC701	∗E5
IC702	∗F5
IC704	∗E5
IC705	∗F5
IC706	G4
IC707	∗G4
IC708	∗G5
IC800	D7
IC801	∗C6
IC802	∗B5
IC803	∗B5
IC807	C5
IC808	∗C6
IC809	∗C6
IC811	D4
IC812	C4
IC813	B4
IC900	∗C4
IC901	∗C3
IC902	∗B4
IC903	∗B3
IC904	∗C5
IC1000	C7
IC1001	D7
IC1002	D8
IC1003	D7
IC1004	∗C7
IC1005	∗B8
IC1006	C7
IC1007	∗C7
IC1008	C7
IC1009	B7
IC1011	C8
IC1013	C7
IC1014	B8
IC1103	A9
IC1104	B9
IC1105	∗C9
IC1106	B9
IC1107	∗B9
IC1108	∗A3
IC1109	A8
IC1111	∗E9
IC1112	A8
IC1113	B8
IC1114	∗A6
IC1115	∗B6
IC1116	∗A7
IC1117	∗B7
IC1118	∗A7
IC1119	∗B7
IC1120	∗A7
IC1121	B8
IC1122	A9
IC1124	A9
IC1200	C9
IC1201	C9
IC1202	C8
IC1203	C8
IC1204	E9
IC1205	D9
IC1206	E8
IC1207	D8
IC1300	∗F1
IC1301	F1
IC1302	E1
IC1303	F3
IC1304	E3
IC1305	E1
IC1306	D1
IC1307	F2
IC1308	∗E1
IC1309	F2
IC1310	E1
IC1311	∗E2
IC1312	F2
IC1313	∗E1
IC1314	E2
IC1315	∗D2
IC1316	D2
IC1317	∗D2
IC1318	∗E2
IC1319	∗D2
IC1320	D2
IC1321	∗C2
IC1322	∗B2
IC1323	∗B2
IC1324	∗C2
IC1325	∗D2
IC1326	∗D2
IC1327	∗C2
IC1328	∗B3
IC1329	C1
IC1330	B3
IC1331	∗C2
IC1332	B2
IC1333	∗D1
IC1334	∗B2
IC1335	C1
IC1336	C2
IC1337	C2
IC1338	C2
IC1339	∗B2
IC1340	C1
IC1341	∗B1
IC1342	∗B1
IC1343	∗B2
IC1344	∗A2
IC1345	A3
IC1346	A2
IC1348	A2
IC1349	A1
IC1600	∗F3
IC1601	∗E3
IC1602	∗F3

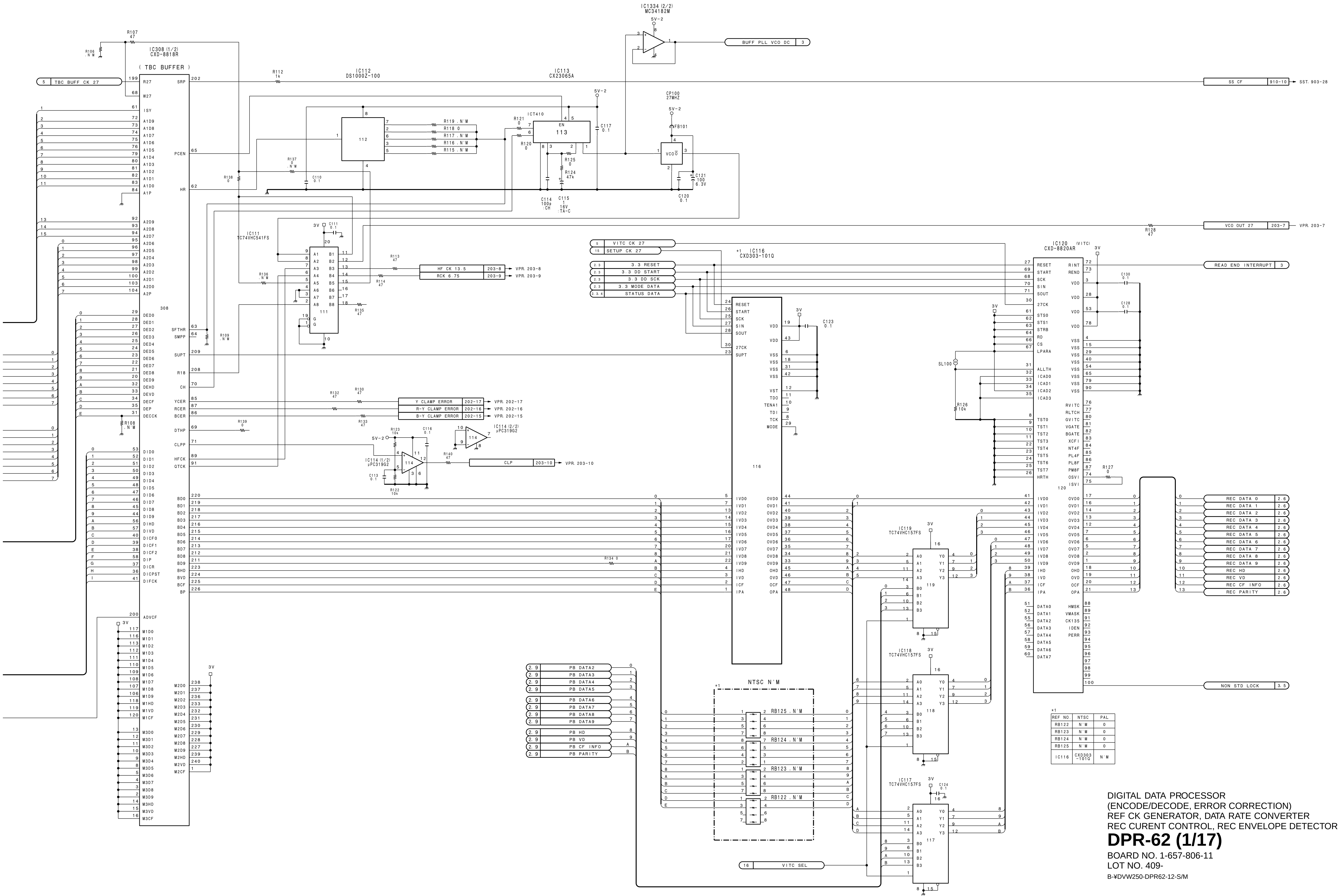
∗ : Soldering Side

(Continued to 3-42)


CN201
VPR. CN201
DEC DATA 0
DEC DATA 1
DAC DATA 2
DEC DATA 3
DEC DATA 4
DEC DATA 5
DEC DATA 6
DEC DATA 7
DEC DATA 8
DEC DATA 9
DEC HD
DEC VD
DEC CF INFO
DEC PARITY
DEC CK
RB100 100k
RB107 100k
RB103 100k
RB106 100k
RB112 (1/2) 47
RB113 (1/3) 47
RB115 47
RB113 (2/3) 47
RB114 47
RB113 (3/3) 47
RB112 (2/2) 47
3V
IC104 TC74VHC245FS N.P.: N'M
IC103 TC74VHC245FS N.P.: N'M
C100 0.1
G
DIR
DIF. CN205
D1 DATA 0
D1 DATA 1
D1 DATA 2
D1 DATA 3
D1 DATA 4
D1 DATA 5
D1 DATA 6
D1 DATA 7
D1 DATA 8
D1 DATA 9
D1 HD
D1 VD
D1 CF0
D1 CF1
D1 CF2
D1 PARITY
D1 CRCC
CSIT/COMP
D1 IN CK
RB101 100k
RB102 4.7k
RB105 100k
RB104 100k
RB111 47
RB110 47
RB109 47
RB108 47
RB126 100k
R110 47
R111 47
R129 47
R141 N'M
R142 47k
IC26 (2/4) TC74VHC08FS
IC210 (4/4) TC74VHC00FS
IC3001 (2/4) TC74VHC32FS
CN202
VPR. CN202
VPR. CN203
IN SYNC
Y IN DATA 9
Y IN DATA 8
Y IN DATA 7
Y IN DATA 6
Y IN DATA 5
Y IN DATA 4
Y IN DATA 3
Y IN DATA 2
Y IN DATA 1
Y IN DATA 0
C IN DATA 9
C IN DATA 8
C IN DATA 7
C IN DATA 6
C IN DATA 5
C IN DATA 4
C IN DATA 3
C IN DATA 2
C IN DATA 1
C IN DATA 0
RB127 100k
RB128 100k
RB129 100k
RB130 100k
RB131 100k
RB132 100k
RB121 47
RB120 47
RB119 47
RB118 47
RB117 47
RB116 47
C105 0.1
IC108 TC74VHC245FS N.P.: N'M
IC107 TC74VHC245FS N.P.: N'M
IC106 TC74VHC245FS N.P.: N'M
IC302 (5/9) SN74HCT244ANS-E5
IC302 (6/9) SN74HCT244ANS-E5
IC302 (7/9) SN74HCT244ANS-E5
IC302 (8/9) SN74HCT244ANS-E5
IC105 TC7S08F (TE85R)
5V
R131 10k
R103 10k
R105 47
R104 47
R100 N'M
R101 N'M
R102 0
INPUT CF
D1 HV
D1 HD
D1 CF
CSIT/COMP
ADV CF

3-40

http://getMANUAL.com


IC308 (1/2) CXD-8818R
(TBC BUFFER)
IC1334 (2/2) MC34182M
IC112 DS1000Z-100
IC113 CX23065A
ICT410
IC111 TC74VHC541FS
IC114 (1/2) μPC319G2
IC114 (2/2) μPC319G2
IC116 CXD303-101Q
IC120 (VITC) CXD-8820AR
IC119 TC74VHC157FS
IC118 TC74VHC157FS
IC117 TC74VHC157FS
CP100 27MHZ
VCO
TBC BUFF CK 27
BUFF PLL VCO DC
SS CF
SST. 903-28
VCO OUT 27
VPR. 203-7
HF CK 13.5
RCK 6.75
VPR. 203-8
VPR. 203-9
Y CLAMP ERROR
R-Y CLAMP ERROR
B-Y CLAMP ERROR
VPR. 202-17
VPR. 202-16
VPR. 202-15
CLP
VPR. 203-10
VITC CK 27
SETUP CK 27
3.3 RESET
3.3 DD START
3.3 DD SCK
3.3 MODE DATA
STATUS DATA
READ END INTERRUPT
REC DATA 0
REC DATA 1
REC DATA 2
REC DATA 3
REC DATA 4
REC DATA 5
REC DATA 6
REC DATA 7
REC DATA 8
REC DATA 9
REC HD
REC VD
REC CF INFO
REC PARITY
NON STD LOCK
PB DATA2
PB DATA3
PB DATA4
PB DATA5
PB DATA6
PB DATA7
PB DATA8
PB DATA9
PB HD
PB VD
PB CF INFO
PB PARITY
NTSC N'M
RB125 N'M
RB124 N'M
RB123 N'M
RB122 N'M
VITC SEL
1
2
3
4
5

*1

REF NO.	NTSC	PAL
RB122	N'M	0
RB123	N'M	0
RB124	N'M	0
RB125	N'M	0
IC116	CXD303 -101Q	N'M

DIGITAL DATA PROCESSOR
(ENCODE/DECODE, ERROR CORRECTION)
REF CK GENERATOR, DATA RATE CONVERTER
REC CURENT CONTROL, REC ENVELOPE DETECTOR

DPR-62 (1/17)

BOARD NO. 1-657-806-11
LOT NO. 409-
B-¥DVW250-DPR62-12-S/M

DPR-62 (2/17)

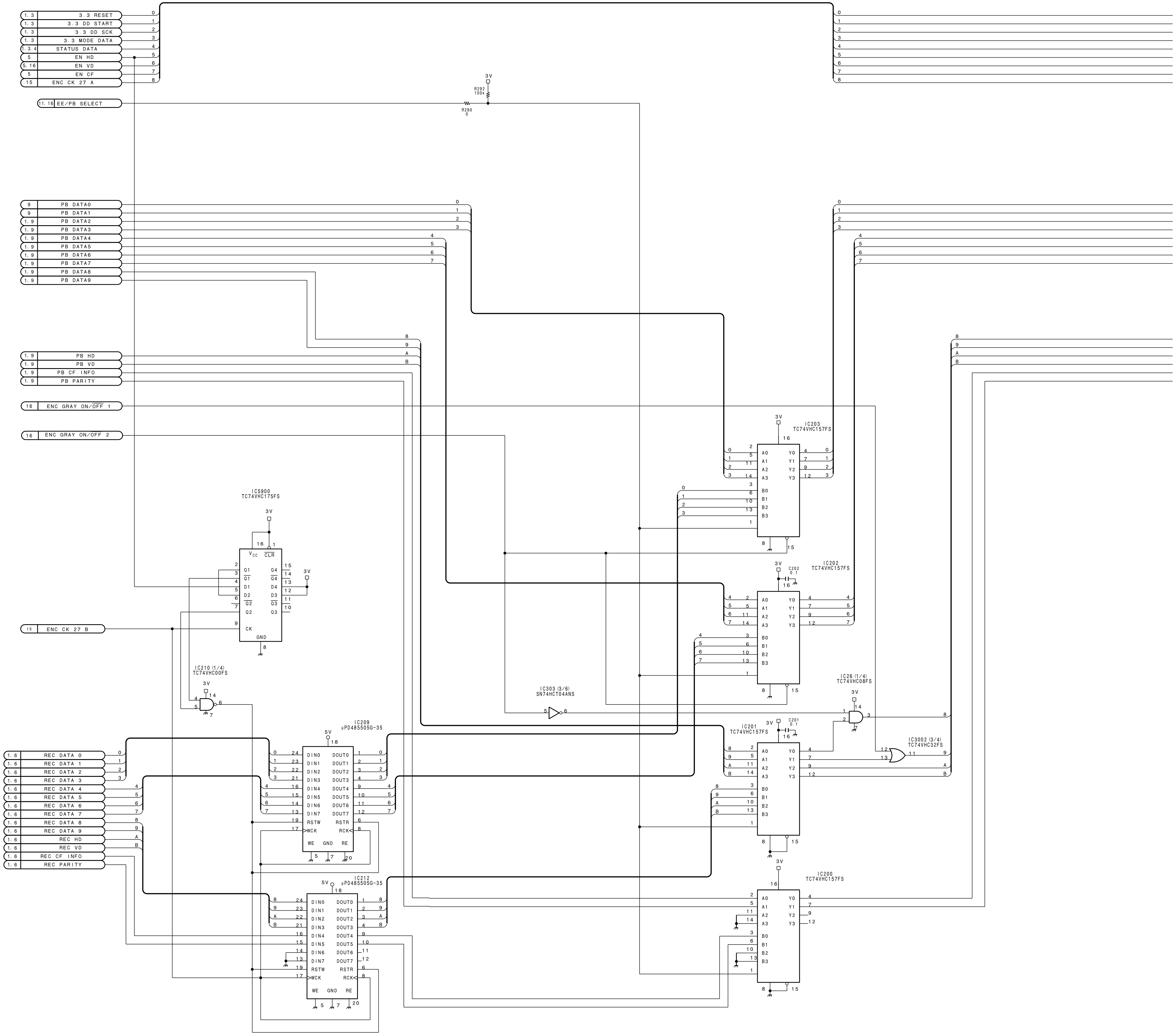
DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

DPR-62 (1-657-806-11)

(From 3-40)

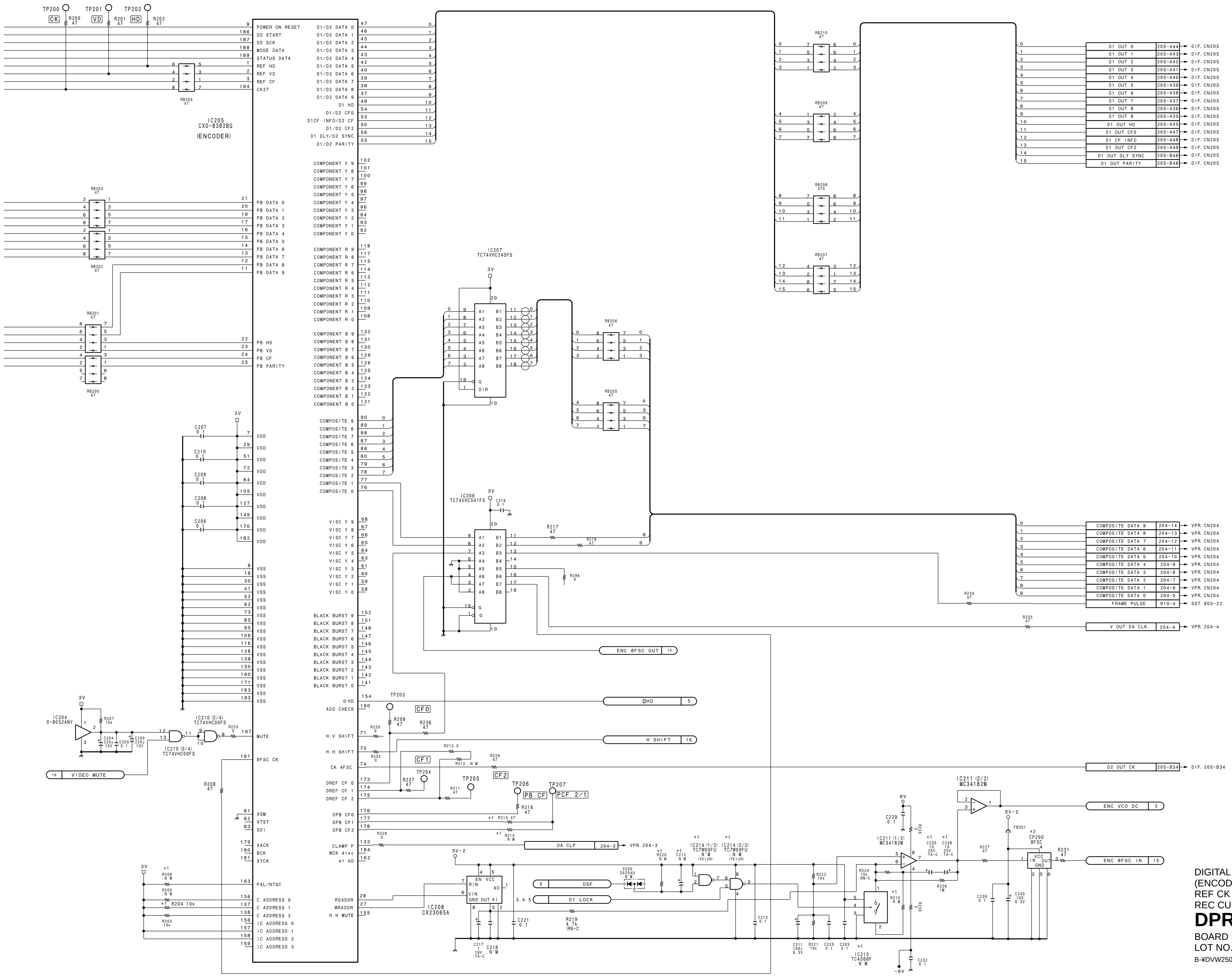
IC1603	∗F4
IC1604	∗E4
IC1605	F3
IC2500	∗H3
IC2501	∗G4
IC2502	∗H4
IC3000	F3
IC3001	∗F3
IC3002	F5
IC5900	F9
L1	A4
L2	A4
L3	A5
L4	B4
L5	A5
L6	A3
L7	B3
L10	B4
L12	A5
L13	A5
L1300	∗F2
L1301	∗F2
L1302	∗E2
L1303	∗D1
L1304	∗D1
Q1100	∗B6
Q1101	∗B6
Q1102	∗A6
Q1103	∗A8
Q1104	∗A6
Q1300	∗F3
Q1301	∗F2
Q1302	∗F2
Q1303	∗F2
Q1304	∗E2
Q1305	∗F2
Q1306	∗E2
Q1307	∗E2
Q1308	∗E2
Q1309	∗D2
Q1310	∗E2
Q1311	∗B1
Q1312	∗B1
Q1313	∗B1
RB1	E7
RB2	E7
RB3	E7
RB4	E7
RB5	E8
RB6	E8
RB7	E7
RB8	E7
RB9	E7
RB10	E7
RB11	E8
RB12	E8
RB13	E7
RB14	E7
RB100	∗H7
RB101	J6
RB102	∗H7
RB103	∗H7
RB104	J6
RB105	J6
RB106	∗H7
RB107	∗H7
RB108	H6
RB109	∗H7
RB110	H6
RB111	H6
RB112	∗H7
RB113	∗H7
RB114	∗H7
RB115	∗H7
RB116	∗G6
RB117	∗G6
RB118	∗G6
RB119	∗G6
RB120	∗H6
RB121	∗H6
RB126	∗H7
RB127	∗H7
RB128	∗H7
RB129	∗G7
RB130	∗G7
RB131	∗G7
RB132	∗G7
RB200	∗G9
RB201	∗G9
RB202	∗G9
RB203	∗G9
RB204	∗G9
RB205	J8
RB206	J8
RB207	∗H9
RB208	∗H9
RB209	∗H9
RB210	∗H9
RB300	∗E6
RB301	F6
RB302	E6
RB500	F2
RB501	∗F2
RB505	F2
RB506	∗F2
RB507	F2
RB508	F3
RB509	H2
RB510	H3
RB600	H1
RB700	D3
RB701	∗D5
RB702	E5
RB703	E5
RB704	D5
RB705	D3
RB706	D5
RB707	D3
RB800	C7
RB802	∗B6
RB804	∗B5
RB805	∗C5
RB806	C6
RB807	∗B6
RB808	∗C6
RB809	∗C6
RB810	∗D6
RB811	∗D6
RB813	∗B7
RB814	∗B7
RB815	∗C5
RB816	∗C5
RB817	∗B5
RB818	C6
RB819	∗B6
RB820	∗B6
RB821	∗C6
RB822	∗C6
RB900	∗C4
RB901	∗C5
RB902	∗C4
RB903	∗C4
RB904	∗C4
RB905	∗D3
RB906	∗B4
RB907	∗B4
RB908	∗B4
RB909	∗B4
RB910	∗C4
RB911	∗C3
RB912	∗C5
RB913	∗D5
RB914	∗C6
RB1000	∗D7
RB1001	D8
RB1003	D8
RB1004	∗C7
RB1100	A6
RB1101	A6
RB1102	A3
RB1103	A3
RB1104	A8
RB1105	A8
RB1200	C9
RB1201	B9
RB1202	C8
RB1203	B8
RB1204	E9
RB1205	D9
RB1206	E8
RB1207	D8
RB2500	H4
RB2501	H4
RB2502	∗G4
RB2503	∗H3
RB2504	H3
RB2505	H3
RB2506	H3
RB2507	H4
RB2508	H4
RB2509	H3
RB2510	H3
RB2511	H4
RB2512	H4
RB2513	H4
RB2514	H4
RB2515	∗G4
RB2516	H4
RB2517	H4
RB2518	H4
RB2519	H4
RB2520	H4
TP200	∗F9
TP201	∗F9
TP202	∗F9
TP203	∗F9
TP204	∗F9
TP205	∗F9
TP206	∗F9
TP207	∗F9
TP300	∗F6
TP700	∗D4
TP701	∗D4
TP702	C6
TP703	∗D4
TP704	∗D5
TP705	B6
TP706	∗H3
TP1001	∗J2
TP1002	∗J2
TP1003	∗D7
TP1004	∗D7
TP1005	∗D6
TP1006	∗D6
TP1100	∗A9
TP1101	∗A9
TP1300	∗E3
TP1301	∗E1
TP1302	D2
TP1303	D3
TP1400	∗J2

∗ : Soldering Side



1, 3 | 3.3 RESET
1, 3 | 3.3 DD START
1, 3 | 3.3 DD SCK
1, 3 | 3.3 MODE DATA
1, 3, 4 | STATUS DATA
5 | EN HD
5, 16 | EN VD
5 | EN CF
15 | ENC CK 27 A
11, 16 | EE/PB SELECT
R292 100k
R290 0
3V
9 | PB DATA0
9 | PB DATA1
1, 9 | PB DATA2
1, 9 | PB DATA3
1, 9 | PB DATA4
1, 9 | PB DATA5
1, 9 | PB DATA6
1, 9 | PB DATA7
1, 9 | PB DATA8
1, 9 | PB DATA9
1, 9 | PB HD
1, 9 | PB VD
1, 9 | PB CF INFO
1, 9 | PB PARITY
16 | ENC GRAY ON/OFF 1
16 | ENC GRAY ON/OFF 2
15 | ENC CK 27 B
IC5900 TC74VHC175FS
IC210 (1/4) TC74VHC00FS
IC303 (3/6) SN74HCT04ANS
IC209 μPD485505G-35
IC212 μPD485505G-35
IC203 TC74VHC157FS
IC202 TC74VHC157FS
IC201 TC74VHC157FS
IC200 TC74VHC157FS
C202 0.1
C201 0.1
IC26 (1/4) TC74VHC08FS
IC3002 (3/4) TC74VHC32FS
1, 6 | REC DATA 0
1, 6 | REC DATA 1
1, 6 | REC DATA 2
1, 6 | REC DATA 3
1, 6 | REC DATA 4
1, 6 | REC DATA 5
1, 6 | REC DATA 6
1, 6 | REC DATA 7
1, 6 | REC DATA 8
1, 6 | REC DATA 9
1, 6 | REC HD
1, 6 | REC VD
1, 6 | REC CF INFO
1, 6 | REC PARITY
5V

3-42


IC205
CXD-8382BQ
(ENCODER)
IC207
TC74VHC245FS
IC206
TC74VHC541FS
IC204
S-8052ANY
IC210 (2/4)
TC74VHC00FS
IC210 (3/4)
TC74VHC00FS
IC208
CX23065A
IC211 (1/2)
MC34182M
IC211 (2/2)
MC34182M
IC213
TC4S66F
IC214 (1/2)
TC7W00FU
IC214 (2/2)
TC7W00FU
CP200
8FSC
TP200
TP201
TP202
TP203
TP204
TP205
TP206
TP207
CK
VD
HD
CF0
CF1
CF2
PB CF
PCF 2/1
VIDEO MUTE
ENC 8FSC OUT
ØHD
H SHIFT
DA CLP
DSF
D1 LOCK
ENC VCO DC
ENC 8FSC IN
D1 OUT 0
D1 OUT 1
D1 OUT 2
D1 OUT 3
D1 OUT 4
D1 OUT 5
D1 OUT 6
D1 OUT 7
D1 OUT 8
D1 OUT 9
D1 OUT HD
D1 OUT CF0
D1 CF INFO
D1 OUT CF2
D1 OUT DLY SYNC
D1 OUT PARITY
DIF. CN205
COMPOSITE DATA 9
COMPOSITE DATA 8
COMPOSITE DATA 7
COMPOSITE DATA 6
COMPOSITE DATA 5
COMPOSITE DATA 4
COMPOSITE DATA 3
COMPOSITE DATA 2
COMPOSITE DATA 1
COMPOSITE DATA 0
FRAME PULSE
VPR. CN204
SST. 903-22
V OUT DA CLK
VPR. 204-4
D2 OUT CK
DIF. 205-B34
VPR. 204-3
I
J
K
L
M
N
O
P
1
2
3
4
5

*1

REF NO.	NTSC	PAL
C212	N'M	4.7 μ
C235	10 μ	68 μ
C238	10 μ	68 μ
IC213	N'M	MOUNT
IC214	N'M	MOUNT
D200	N'M	MOUNT
R210	N'M	1.2K
R220	N'M	470K
R214	N'M	47
R215	47	N'M
R204	10K	,N'M
R206	,N'M	10K

*2

CP200	28.6363 MHZ	35.4689 MHZ

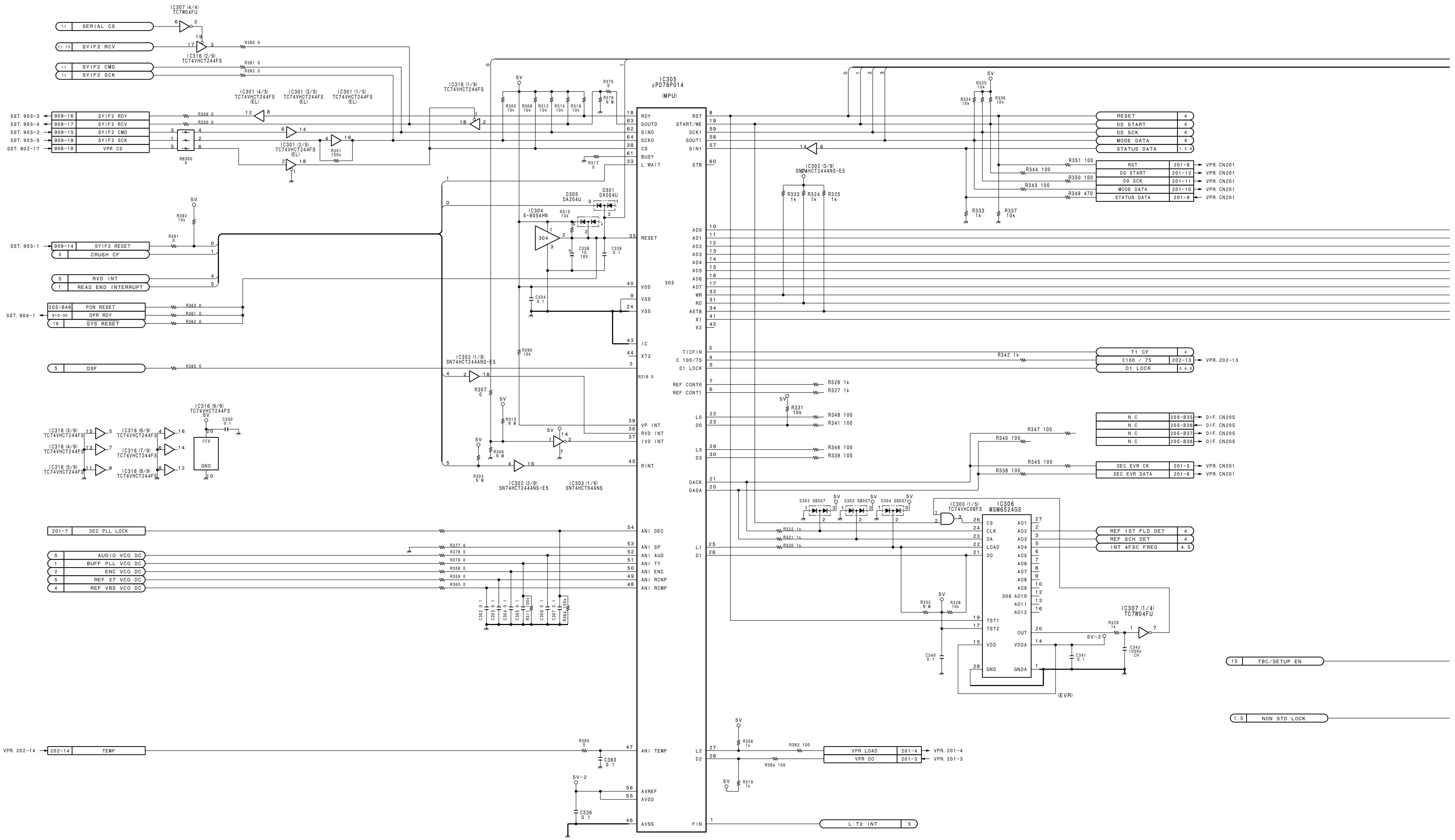
DIGITAL DATA PROCESSOR
(ENCODE/DECODE, ERROR CORRECTION)
REF CK GENERATOR, DATA RATE CONVERTER
REC CURENT CONTROL, REC ENVELOPE DETECTOR

DPR-62 (2/17)

BOARD NO. 1-657-806-11
LOT NO. 409-
B-¥DVW250-DPR62-12-S/M

DPR-62 (3/17)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


1
2
3
4
5
IC305
μPD78P014
(MPU)
IC306
MSM6524GS
IC304
S-8054HN
IC307 (4/4) TC7W04FU
IC307 (1/4) TC7W04FU
IC316 (2/9) TC74VHCT244FS
IC316 (1/9) TC74VHCT244FS
IC301 (4/5) TC74VHCT244FS (EL)
IC301 (3/5) TC74VHCT244FS (EL)
IC301 (1/5) TC74VHCT244FS (EL)
IC301 (2/5) TC74VHCT244FS (EL)
IC302 (3/9) SN74HCT244ANS-E5
IC302 (1/9) SN74HCT244ANS-E5
IC302 (2/9) SN74HCT244ANS-E5
IC303 (1/6) SN74HCT04ANS
IC300 (1/5) TC74VHC08FS
D305 DA204U
D301 DA204U
D302 SB007
D303 SB007
D304 SB007
SERIAL CS
SYIF2 RCV
SYIF2 CMD
SYIF2 SCK
SYIF2 RDY
VPR CS
SST. 903-3
SST. 903-4
SST. 903-2
SST. 903-5
SST. 902-17
SST. 903-1
SYIF2 RESET
CRUSH CF
RVD INT
READ END INTERRUPT
PON RESET
DPR RDY
SYS RESET
SST. 904-1
DSF
DEC PLL LOCK
AUDIO VCO DC
BUFF PLL VCO DC
ENC VCO DC
REF 27 VCO DC
REF VBS VCO DC
TEMP
VPR. 202-14
RESET
DD START
DD SCK
MODE DATA
STATUS DATA
RST
DD START
DD SCK
MODE DATA
STATUS DATA
VPR. CN201
T1 CF
C100 / 75
D1 LOCK
VPR. 202-13
N.C
DIF. CN205
DEC EVR CK
DEC EVR DATA
REF 1ST FLD DET
REF SCH DET
INT 4FSC FREQ
TBC/SETUP EN
NON STD LOCK
VPR LOAD
VPR DO
VPR. 201-4
VPR. 201-3
L:T2 INT
(EVR)
5V
5V-2

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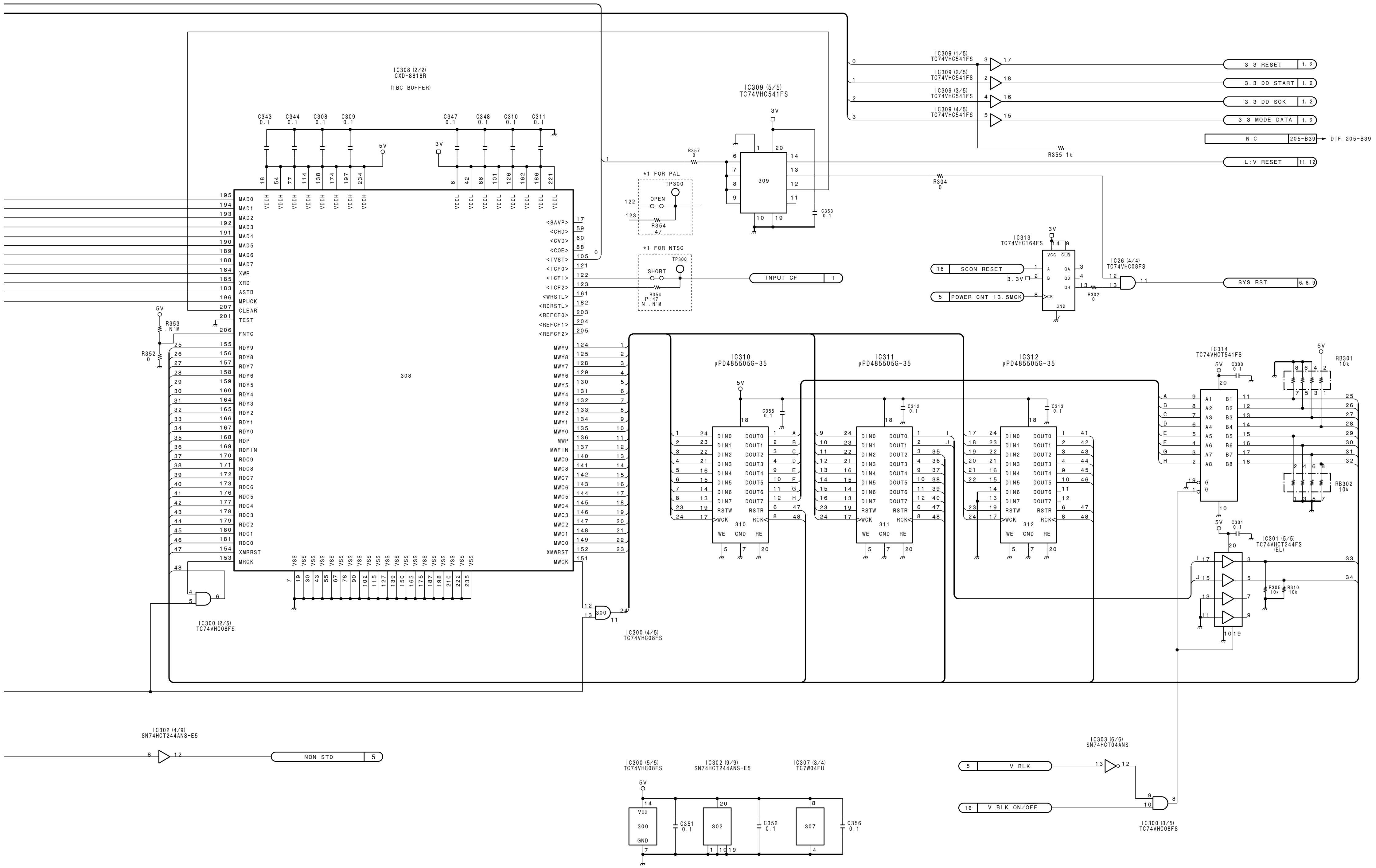
DPR-62 (3/17)


IC308 (2/2)
CXD-8818R
(TBC BUFFER)
308
IC309 (5/5)
TC74VHC541FS
309
IC309 (1/5) TC74VHC541FS
IC309 (2/5) TC74VHC541FS
IC309 (3/5) TC74VHC541FS
IC309 (4/5) TC74VHC541FS
3.3 RESET
3.3 DD START
3.3 DD SCK
3.3 MODE DATA
N.C
205-B39
DIF. 205-B39
L: V RESET
R355 1k
R304 0
R357 0
*1 FOR PAL
TP300
OPEN
R354 47
*1 FOR NTSC
SHORT
INPUT CF
IC313
TC74VHC164FS
SCON RESET
POWER CNT 13.5MCK
IC26 (4/4)
TC74VHC08FS
R302 0
SYS RST
IC310
μPD485505G-35
IC311
μPD485505G-35
IC312
μPD485505G-35
IC314
TC74VHCT541FS
RB301 10k
RB302 10k
IC301 (5/5)
TC74VHCT244FS
(EL)
R305 10k
R310 10k
IC300 (2/5)
TC74VHC08FS
IC300 (4/5)
TC74VHC08FS
IC302 (4/9)
SN74HCT244ANS-E5
NON STD
IC303 (6/6)
SN74HCT04ANS
V BLK
V BLK ON/OFF
IC300 (3/5)
TC74VHC08FS
IC300 (5/5)
TC74VHC08FS
IC302 (9/9)
SN74HCT244ANS-E5
IC307 (3/4)
TC7W04FU
C351 0.1
C352 0.1
C356 0.1
R353 N.M
R352 0

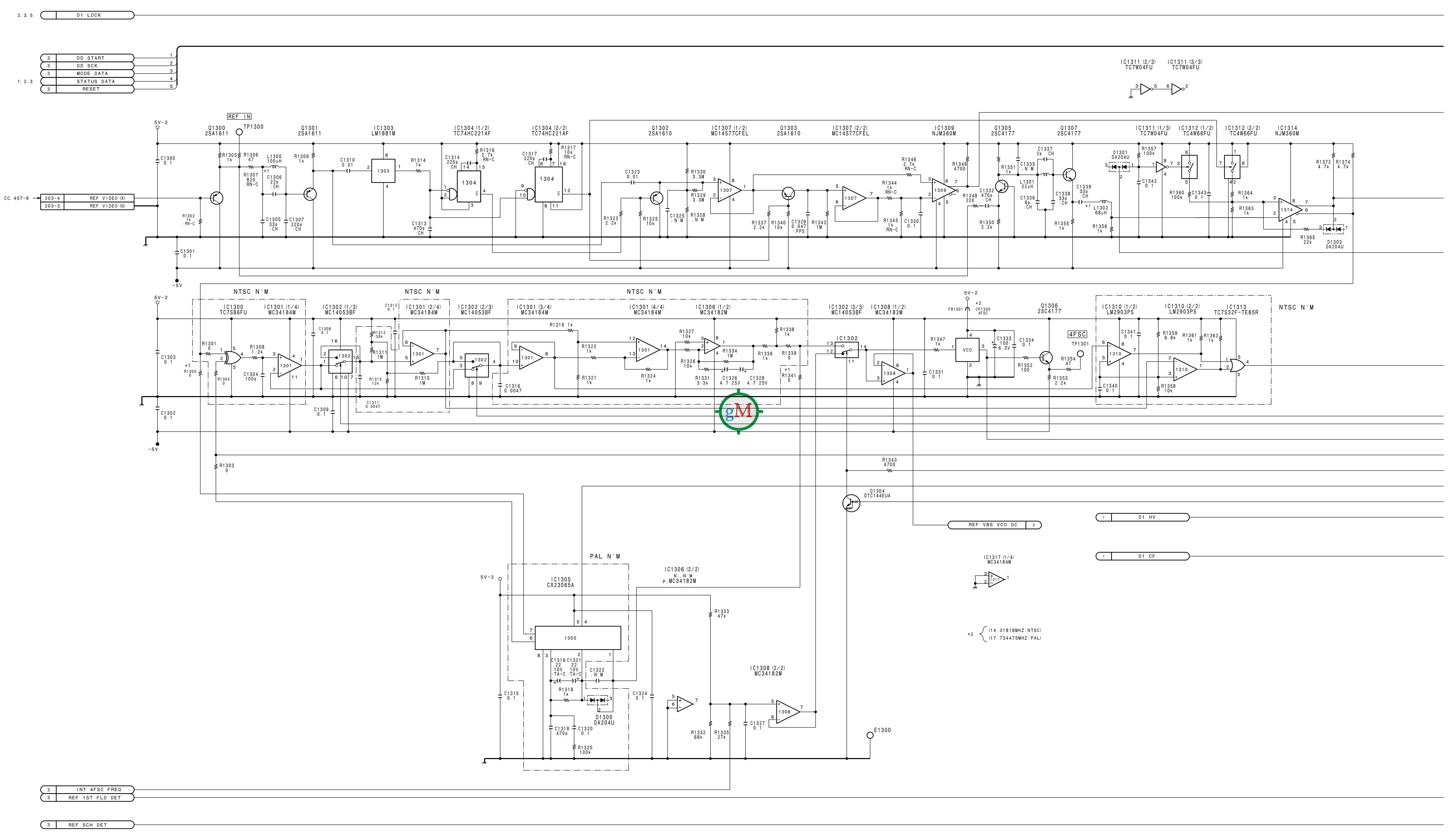
DIGITAL DATA PROCESSOR
(ENCODE/DECODE, ERROR CORRECTION)
REF CK GENERATOR, DATA RATE CONVERTER
REC CURENT CONTROL, REC ENVELOPE DETECTOR

DPR-62 (3/17)

BOARD NO. 1-657-806-11
LOT NO. 409-
B-¥DVW250-DPR62-12-S/M

DPR-62 (4/17)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)



1
2
3
4
5
2, 3, 5
D1 LOCK
DD START
DD SCK
MODE DATA
STATUS DATA
RESET
1, 2, 3
REF IN
TP1300
CC. 457-9
203-4 REF VIDEO (X)
203-3 REF VIDEO (G)
5V-2
-5V
Q1300 2SA1611
Q1301 2SA1611
IC1303 LM1881M
IC1304 (1/2) TC74HC221AF
IC1304 (2/2) TC74HC221AF
Q1302 2SA1610
IC1307 (1/2) MC14577CFEL
Q1303 2SA1610
IC1307 (2/2) MC14577CFEL
IC1309 NJM360M
Q1305 2SC4177
Q1307 2SC4177
IC1311 (1/3) TC7W04FU
IC1311 (2/3) TC7W04FU
IC1311 (3/3) TC7W04FU
IC1312 (1/2) TC4W66FU
IC1312 (2/2) TC4W66FU
IC1314 NJM360M
D1301 DA204U
D1303 DA204U
NTSC N'M
IC1300 TC7S86FU
IC1301 (1/4) MC34184M
IC1302 (1/3) MC14053BF
IC1301 (2/4) MC34184M
IC1302 (2/3) MC14053BF
IC1301 (3/4) MC34184M
IC1301 (4/4) MC34184M
IC1306 (1/2) MC34182M
IC1302 (3/3) MC14053BF
IC1308 (1/2) MC34182M
CP1300 4FSC
VCO
Q1306 2SC4177
4FSC
TP1301
IC1310 (1/2) LM2903PS
IC1310 (2/2) LM2903PS
IC1313 TC7S32F-TE85R
Q1304 DTC144EUA
REF VBS VCO DC
D1 HV
D1 CF
IC1317 (1/4) MC34184M
*2 (14.31818MHZ:NTSC) (17.734475MHZ:PAL)
PAL N'M
IC1305 CX23065A
IC1306 (2/2) N:N'M P:MC34182M
IC1308 (2/2) MC34182M
D1300 DA204U
E1300
INT 4FSC FREQ
REF 1ST FLD DET
REF SCH DET

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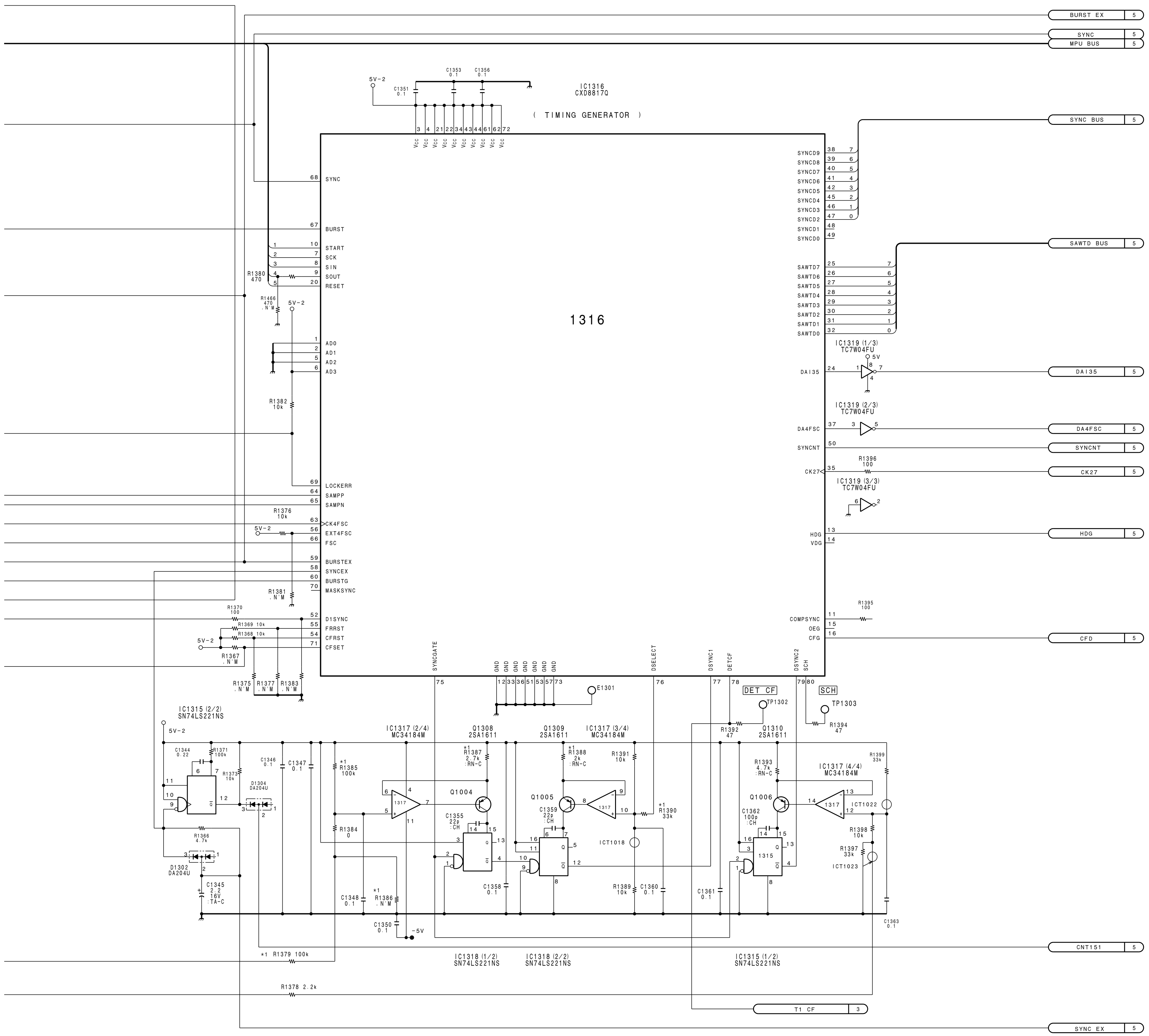
A B C D E F G H


IC1316
CXD8817Q
(TIMING GENERATOR)
1316
5V-2
C1351 0.1
C1353 0.1
C1356 0.1
SYNC
BURST
START
SCK
SIN
SOUT
RESET
AD0
AD1
AD2
AD3
LOCKERR
SAMPP
SAMPN
CK4FSC
EXT4FSC
FSC
BURSTEX
SYNCEX
BURSTG
MASKSYNC
D1SYNC
FRRST
CFRST
CFSET
SYNCGATE
GND
DSELECT
DSYNC1
DETCF
DSYNC2
SCH
SYNCD9
SYNCD8
SYNCD7
SYNCD6
SYNCD5
SYNCD4
SYNCD3
SYNCD2
SYNCD1
SYNCD0
SAWTD7
SAWTD6
SAWTD5
SAWTD4
SAWTD3
SAWTD2
SAWTD1
SAWTD0
DAI35
DA4FSC
SYNCNT
CK27
HDG
VDG
COMPSYNC
OEG
CFG
R1380 470
R1466 470 N'M
R1382 10k
R1376 10k
R1381 N'M
R1370 100
R1369 10k
R1368 10k
R1367 N'M
R1375 N'M
R1377 N'M
R1383 N'M
R1396 100
R1395 100
IC1319 (1/3) TC7W04FU
IC1319 (2/3) TC7W04FU
IC1319 (3/3) TC7W04FU
5V
E1301
DET CF
TP1302
SCH
TP1303
R1394 47
R1392 47
IC1315 (2/2) SN74LS221NS
5V-2
C1344 0.22
R1371 100k
R1373 10k
D1304 DA204U
R1366 4.7k
D1302 DA204U
C1345 2.2 16V TA-C
C1346 0.1
C1347 0.1
*1 R1385 100k
R1384 0
C1348 0.1
*1 R1386 N'M
C1350 0.1
-5V
IC1317 (2/4) MC34184M
Q1308 2SA1611
*1 R1387 2.7k RN-C
Q1004
C1355 22p CH
C1358 0.1
Q1309 2SA1611
*1 R1388 2k RN-C
Q1005
C1359 22p CH
IC1317 (3/4) MC34184M
R1391 10k
*1 R1390 33k
ICT1018
R1389 10k
C1360 0.1
C1361 0.1
Q1310 2SA1611
R1393 4.7k RN-C
Q1006
C1362 100p CH
1315
IC1317 (4/4) MC34184M
R1399 33k
ICT1022
R1398 10k
R1397 33k
ICT1023
C1363 0.1
*1 R1379 100k
R1378 2.2k
IC1318 (1/2) SN74LS221NS
IC1318 (2/2) SN74LS221NS
IC1315 (1/2) SN74LS221NS
BURST EX 5
SYNC 5
MPU BUS 5
SYNC BUS 5
SAWTD BUS 5
DAI35 5
DA4FSC 5
SYNCNT 5
CK27 5
HDG 5
CFD 5
CNT151 5
T1 CF 3
SYNC EX 5
1
2
3
4
5

*1

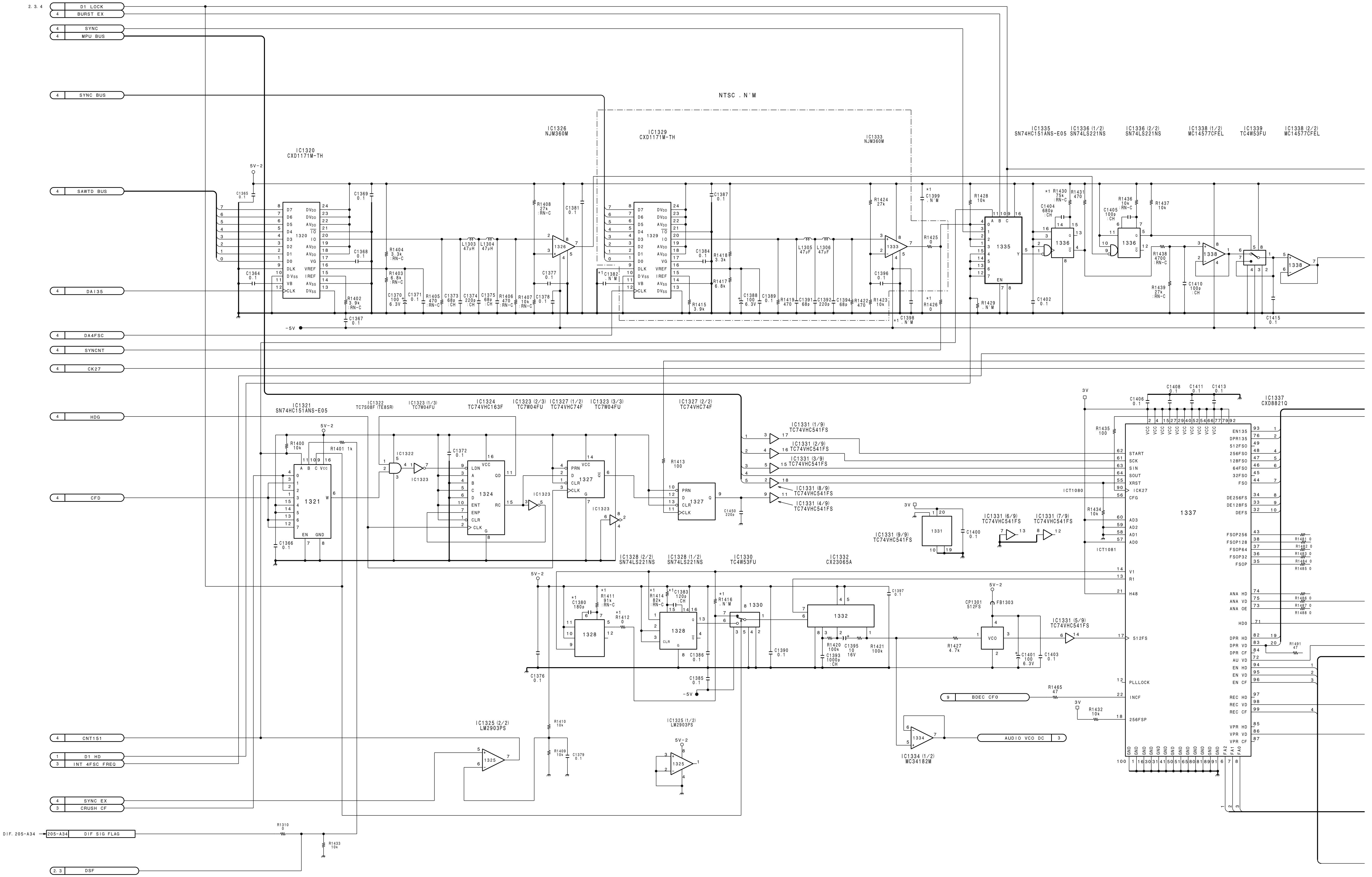
REF NO.	NTSC	PAL
C1306	22p	N'M
L1302	68μF	39μH
R1300	0	N'M
R1341	0	N'M
R1379	100K	22K
R1385	100K	22K
R1386	N'M	82K
R1387	2.7K	4.7K
R1388	2K	1K
R1390	33K	22K

DIGITAL DATA PROCESSOR
(ENCODE/DECODE, ERROR CORRECTION)
REF CK GENERATOR, DATA RATE CONVERTER
REC CURENT CONTROL, REC ENVELOPE DETECTOR

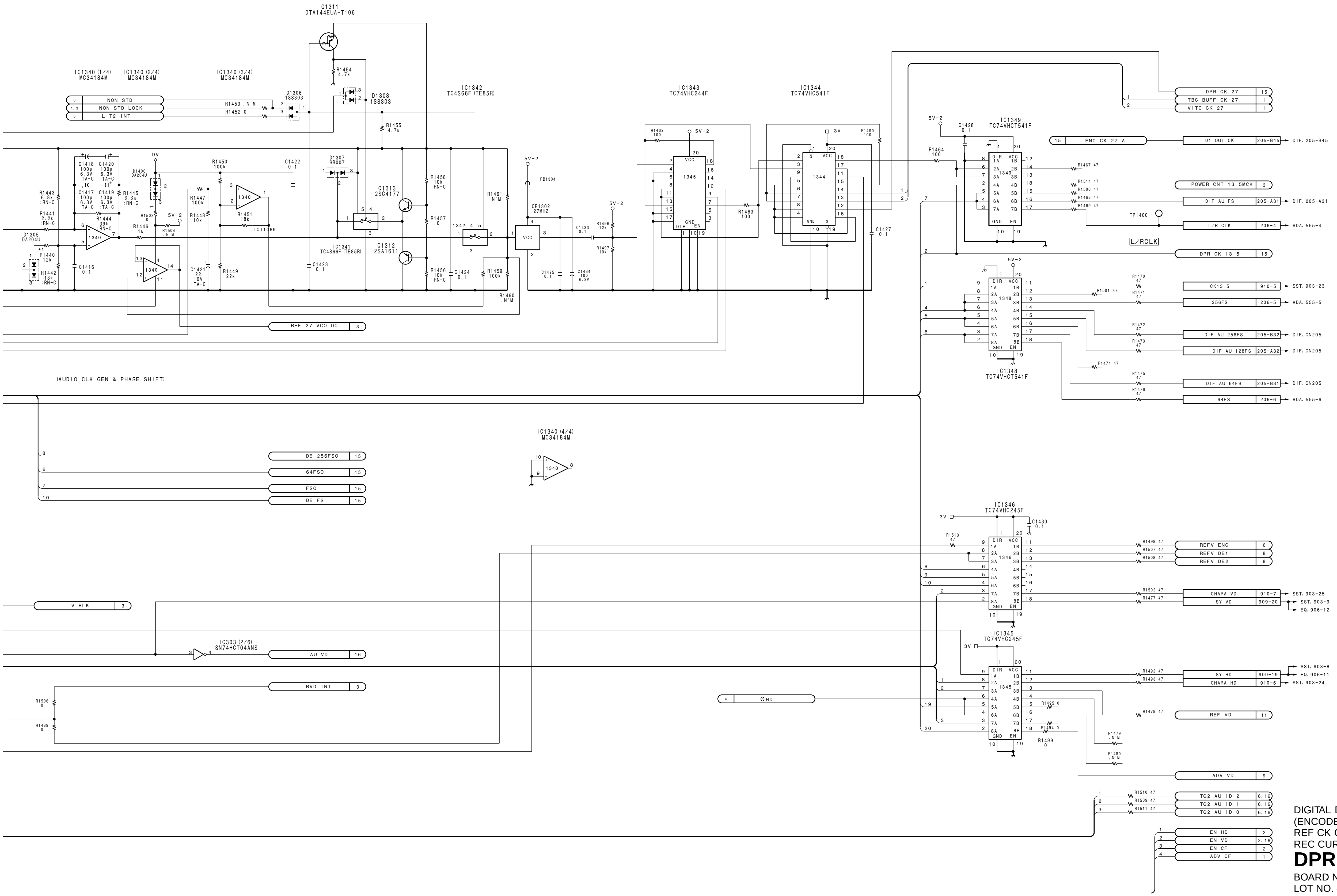
DPR-62 (4/17)

BOARD NO. 1-657-806-11
LOT NO. 409-
B-¥DVW250-DPR62-12-S/M

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


D1 LOCK
BURST EX
SYNC
MPU BUS
SYNC BUS
SAWTO BUS
DAI35
DA4FSC
SYNCNT
CK27
HDG
CFD
CNT151
D1 HD
INT 4FSC FREQ
SYNC EX
CRUSH CF
DIF. 205-A34
DIF SIG FLAG
DSF
NTSC . N'M
IC1320 CXD1171M-TH
IC1326 NJM360M
IC1329 CXD1171M-TH
IC1333 NJM360M
IC1335 SN74HC151ANS-E05
IC1336 (1/2) SN74LS221NS
IC1336 (2/2) SN74LS221NS
IC1338 (1/2) MC14577CFEL
IC1339 TC4W53FU
IC1338 (2/2) MC14577CFEL
IC1321 SN74HC151ANS-E05
IC1322 TC7S08F (TE85R)
IC1323 (1/3) TC7W04FU
IC1324 TC74VHC163F
IC1323 (2/3) TC7W04FU
IC1327 (1/2) TC74VHC74F
IC1323 (3/3) TC7W04FU
IC1327 (2/2) TC74VHC74F
IC1331 (1/9) TC74VHC541FS
IC1331 (2/9) TC74VHC541FS
IC1331 (3/9) TC74VHC541FS
IC1331 (8/9) TC74VHC541FS
IC1331 (4/9) TC74VHC541FS
IC1331 (6/9) TC74VHC541FS
IC1331 (7/9) TC74VHC541FS
IC1331 (9/9) TC74VHC541FS
IC1331 (5/9) TC74VHC541FS
IC1337 CXD8821Q
IC1328 (2/2) SN74LS221NS
IC1328 (1/2) SN74LS221NS
IC1330 TC4W53FU
IC1332 CX23065A
IC1325 (2/2) LM2903PS
IC1325 (1/2) LM2903PS
IC1334 (1/2) MC34182M
VCO
BDEC CFO
AUDIO VCO DC
5V-2
-5V
3V
START
SCK
SIN
SOUT
XRST
ICK27
CFG
AD3
AD2
AD1
AD0
V1
R1
H48
512FS
PLLLOCK
INCF
256FSP
EN135
DPR135
512FSO
256FSO
128FSO
64FSO
32FSO
FSO
DE256FS
DE128FS
DEFS
FSOP256
FSOP128
FSOP64
FSOP32
FSOP
ANA HD
ANA VD
ANA OE
HDO
DPR HD
DPR VD
DPR CF
AU VD
EN HD
EN VD
EN CF
REC HD
REC VD
REC CF
VPR HD
VPR VD
VPR CF
1
2
3
4
5
A
B
C
D
E
F
G
H

DPR-62 (5/17)


(AUDIO CLK GEN & PHASE SHIFT)
IC1340 (1/4) MC34184M
IC1340 (2/4) MC34184M
IC1340 (3/4) MC34184M
IC1340 (4/4) MC34184M
Q1311 DTA144EUA-T106
D1306 1SS303
D1308 1SS303
D1307 SB007
D1400 DA204U
D1305 DA204U
Q1313 2SC4177
Q1312 2SA1611
IC1341 TC4S66F (TE85R)
IC1342 TC4S66F (TE85R)
IC1343 TC74VHC244F
IC1344 TC74VHC541F
IC1349 TC74VHCT541F
IC1348 TC74VHCT541F
IC1346 TC74VHC245F
IC1345 TC74VHC245F
IC303 (2/6) SN74HCT04ANS
CP1302 27MHZ
FB1304
VCO
TP1400
L/RCLK
9V
5V-2
3V
R1443 6.8k :RN-C
R1441 2.2k :RN-C
*1 R1440 12k
R1442 13k :RN-C
C1416 0.1
C1418 100μ 6.3V :TA-C
C1420 100μ 6.3V :TA-C
C1417 100μ 6.3V :TA-C
C1419 100μ 6.3V :TA-C
R1445 2.2k :RN-C
R1444 39k :RN-C
R1446 1k
R1503 0
R1504 , N'M
R1447 100k
R1448 10k
C1421 22 10V :TA-C
R1449 22k
R1450 100k
R1451 18k
ICT1069
C1422 0.1
C1423 0.1
R1453 , N'M
R1452 0
R1454 4.7k
R1455 4.7k
R1458 10k :RN-C
R1457 0
R1456 10k :RN-C
C1424 0.1
R1459 100k
R1460 , N'M
R1461 , N'M
C1425 0.1
C1433 0.1
C1434 100 6.3V
R1496 12k
R1497 10k
R1462 100
R1463 100
R1490 100
C1427 0.1
C1428 0.1
R1464 100
C1430 0.1
R1513 47
R1467 47
R1514 47
R1500 47
R1468 47
R1469 47
R1470 47
R1501 47
R1471 47
R1472 47
R1473 47
R1474 47
R1475 47
R1476 47
R1498 47
R1507 47
R1508 47
R1502 47
R1477 47
R1492 47
R1493 47
R1495 0
R1494 0
R1499 0
R1478 47
R1479 , N'M
R1480 , N'M
R1510 47
R1509 47
R1511 47
R1506 0
R1489 0
NON STD 3
NON STD LOCK 1, 3
L:T2 INT 3
REF 27 VCO DC 3
DE 256FSO 15
64FSO 15
FSO 15
DE FS 15
V BLK 3
AU VD 16
RVD INT 3
ØHD 4
DPR CK 27 15
TBC BUFF CK 27 1
VITC CK 27 1
ENC CK 27 A 15
D1 OUT CK 205-B45 → DIF, 205-B45
POWER CNT 13.5MCK 3
DIF AU FS 205-A31 → DIF, 205-A31
L/R CLK 206-4 → ADA, 555-4
DPR CK 13.5 15
CK13.5 910-5 → SST, 903-23
256FS 206-5 → ADA, 555-5
DIF AU 256FS 205-B32 → DIF, CN205
DIF AU 128FS 205-A32 → DIF, CN205
DIF AU 64FS 205-B31 → DIF, CN205
64FS 206-6 → ADA, 555-6
REFV ENC 6
REFV DE1 8
REFV DE2 8
CHARA VD 910-7 → SST, 903-25
SY VD 909-20 → SST, 903-9 → EQ, 906-12
SY HD 909-19 → SST, 903-8 → EQ, 906-11
CHARA HD 910-6 → SST, 903-24
REF VD 11
ADV VD 9
TG2 AU ID 2 6, 16
TG2 AU ID 1 6, 16
TG2 AU ID 0 6, 16
EN HD 2
EN VD 2, 16
EN CF 2
ADV CF 1
1 2 3 4 5
I J K L M N O P

*1

REF NO.	NTSC	PAL
C1399	N'M	0.1
C1380	180p	N'M
C1382	N'M	0.1
C1383	120p	150p
C1398	N'M	0.1
R1411	91K	N'M
R1412	0	N'M
R1414	82K	39K
R1416	N'M	0
R1426	0	N'M
R1430	75K	82K
R1440	12K	7.5K

DIGITAL DATA PROCESSOR
(ENCODE/DECODE, ERROR CORRECTION)
REF CK GENERATOR, DATA RATE CONVERTER
REC CURENT CONTROL, REC ENVELOPE DETECTOR

DPR-62 (5/17)

BOARD NO. 1-657-806-11
LOT NO. 409-
B-¥DVW250-DPR62-12-S/M

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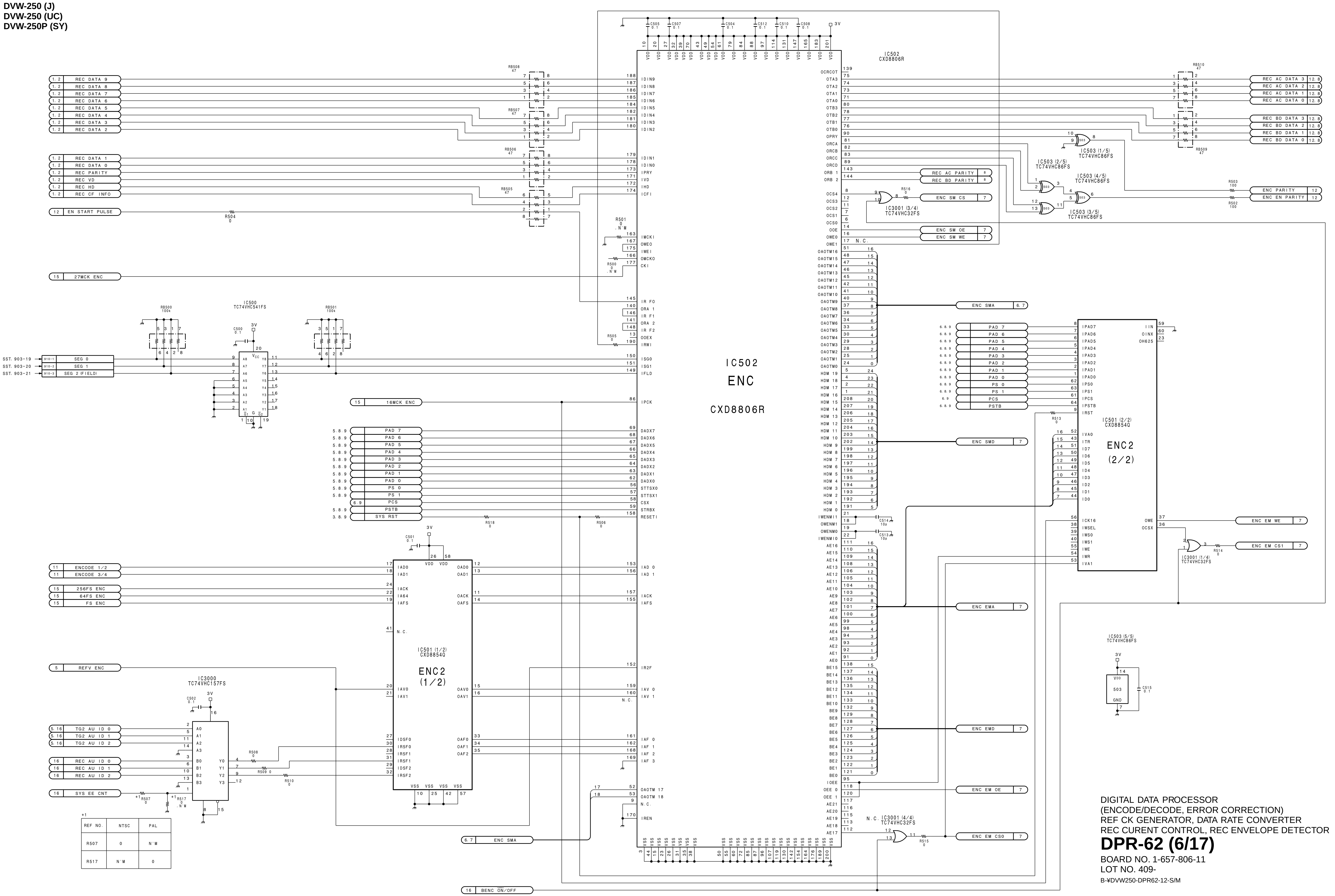
DPR-62 (6/17)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


IC502
CXD8806R
IC502
ENC
CXD8806R
IC501 (1/2)
CXD8854Q
ENC2
(1/2)
IC501 (2/2)
CXD8854Q
ENC2
(2/2)
IC500
TC74VHC541FS
IC3000
TC74VHC157FS
IC503 (1/5)
TC74VHC86FS
IC503 (2/5)
TC74VHC86FS
IC503 (3/5)
TC74VHC86FS
IC503 (4/5)
TC74VHC86FS
IC503 (5/5)
TC74VHC86FS
IC3001 (1/4)
TC74VHC32FS
IC3001 (3/4)
TC74VHC32FS
IC3001 (4/4)
TC74VHC32FS
REC DATA 9
REC DATA 8
REC DATA 7
REC DATA 6
REC DATA 5
REC DATA 4
REC DATA 3
REC DATA 2
REC DATA 1
REC DATA 0
REC PARITY
REC VD
REC HD
REC CF INFO
EN START PULSE
27MCK ENC
SEG 0
SEG 1
SEG 2 (FIELD)
16MCK ENC
PAD 7
PAD 6
PAD 5
PAD 4
PAD 3
PAD 2
PAD 1
PAD 0
PS 0
PS 1
PCS
PSTB
SYS RST
ENCODE 1/2
ENCODE 3/4
256FS ENC
64FS ENC
FS ENC
REFV ENC
TG2 AU ID 0
TG2 AU ID 1
TG2 AU ID 2
REC AU ID 0
REC AU ID 1
REC AU ID 2
SYS EE CNT
ENC SMA
BENC ON/OFF
REC AC DATA 3
REC AC DATA 2
REC AC DATA 1
REC AC DATA 0
REC BD DATA 3
REC BD DATA 2
REC BD DATA 1
REC BD DATA 0
REC AC PARITY
REC BD PARITY
ENC PARITY
ENC EN PARITY
ENC SM CS
ENC SM OE
ENC SM WE
ENC SMA
ENC SMD
ENC EM WE
ENC EM CS1
ENC EMA
ENC EMD
ENC EM OE
ENC EM CS0
3V
A
B
C
D
E
F
G
H
1
2
3
4
5

REF NO.	NTSC	PAL
R507	0	N'M
R517	N'M	0

DIGITAL DATA PROCESSOR
(ENCODE/DECODE, ERROR CORRECTION)
REF CK GENERATOR, DATA RATE CONVERTER
REC CURENT CONTROL, REC ENVELOPE DETECTOR

DPR-62 (6/17)

BOARD NO. 1-657-806-11
LOT NO. 409-
B-¥DVW250-DPR62-12-S/M

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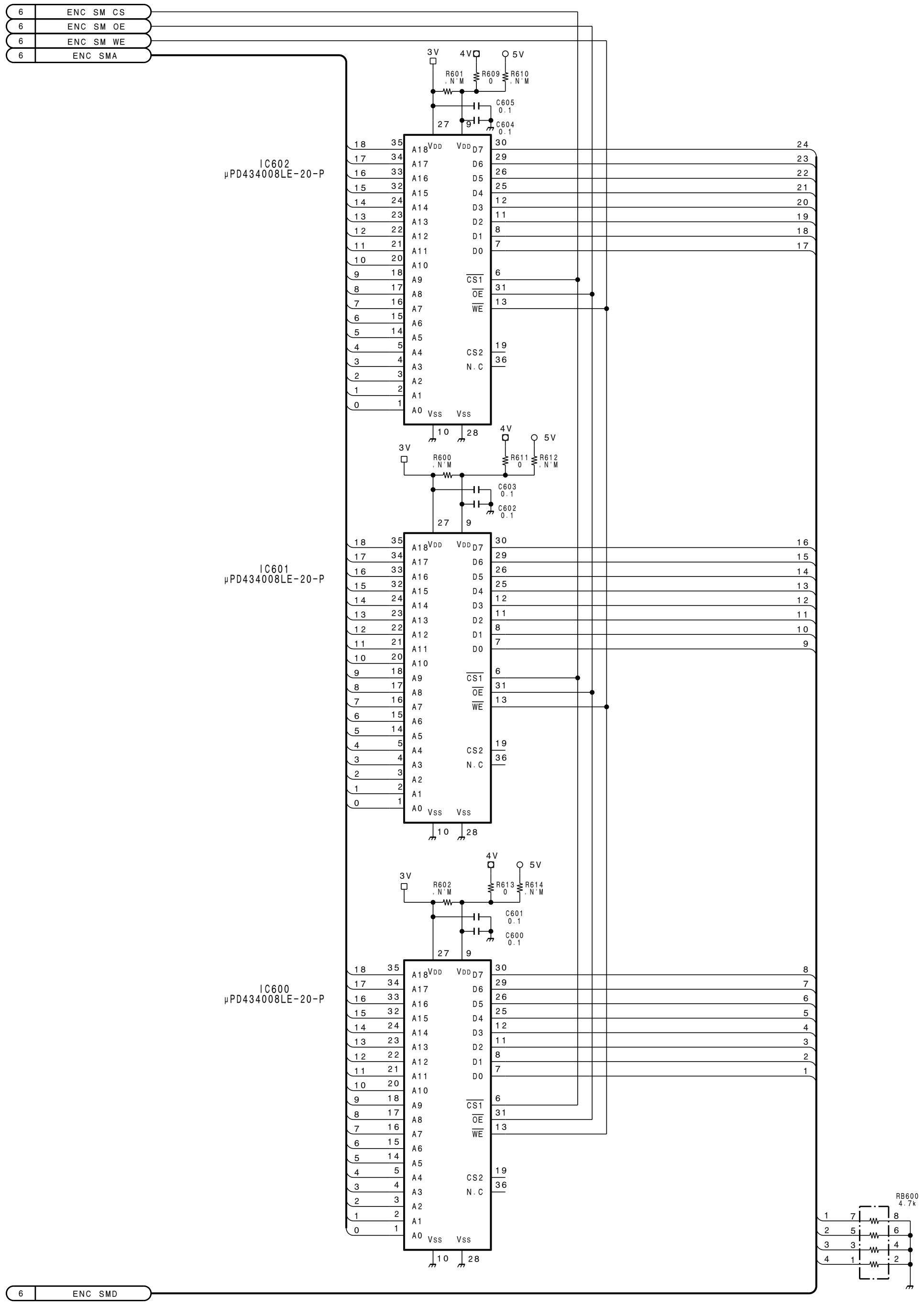
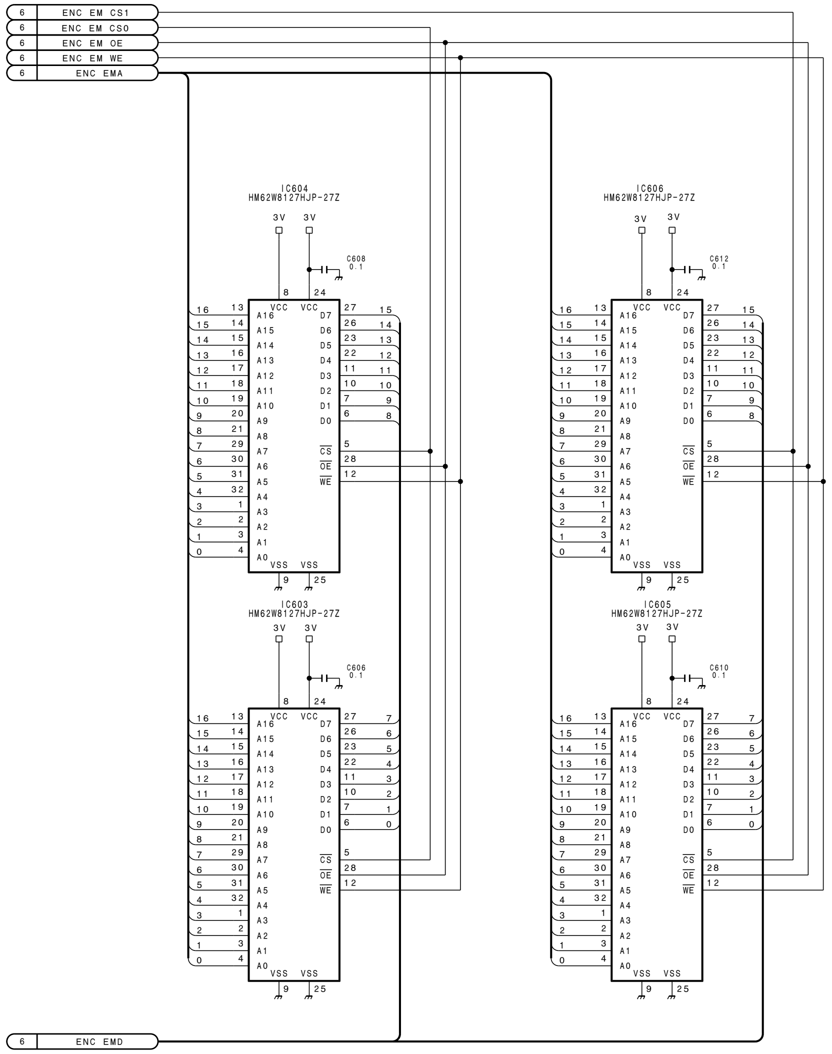
http://getMANUAL.com

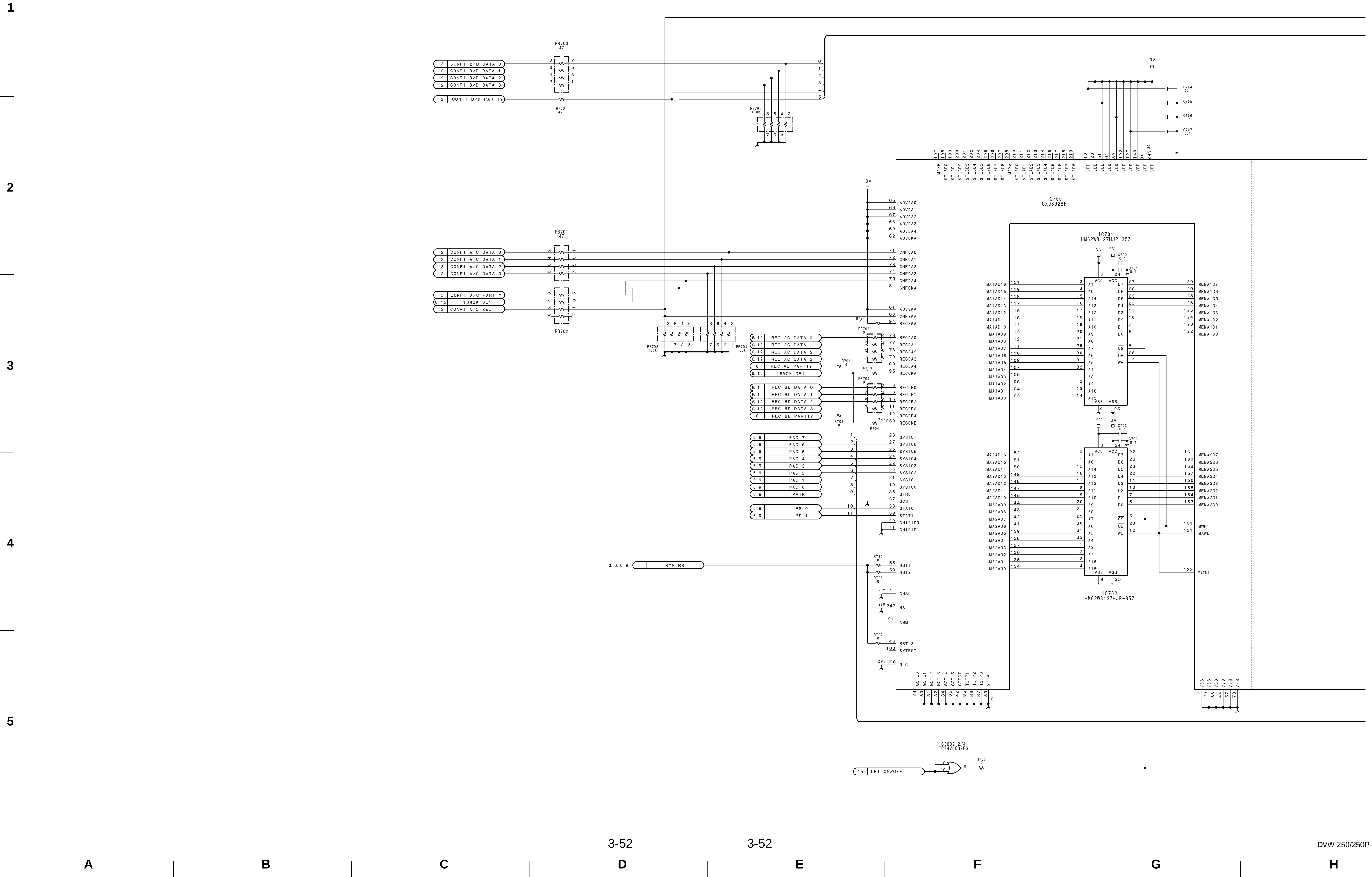

6 ENC SM CS
6 ENC SM OE
6 ENC SM WE
6 ENC SMA
IC602
μPD434008LE-20-P
IC601
μPD434008LE-20-P
IC600
μPD434008LE-20-P
3V
4V
5V
R601 N M
R609 0
R610 N M
C605 0.1
C604 0.1
R600 N M
R611 0
R612 N M
C603 0.1
C602 0.1
R602 N M
R613 0
R614 N M
C601 0.1
C600 0.1
A18 A17 A16 A15 A14 A13 A12 A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 A1 A0
VDD VDD
D7 D6 D5 D4 D3 D2 D1 D0
CS1
OE
WE
CS2
N.C
VSS VSS
RB600 4.7k
6 ENC SMD


6 ENC EM CS1
6 ENC EM CS0
6 ENC EM OE
6 ENC EM WE
6 ENC EMA
IC604
HM62W8127HJP-27Z
IC606
HM62W8127HJP-27Z
IC603
HM62W8127HJP-27Z
IC605
HM62W8127HJP-27Z
3V
C608 0.1
C612 0.1
C606 0.1
C610 0.1
A16 A15 A14 A13 A12 A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 A1 A0
VCC VCC
D7 D6 D5 D4 D3 D2 D1 D0
CS
OE
WE
VSS VSS
6 ENC EMD

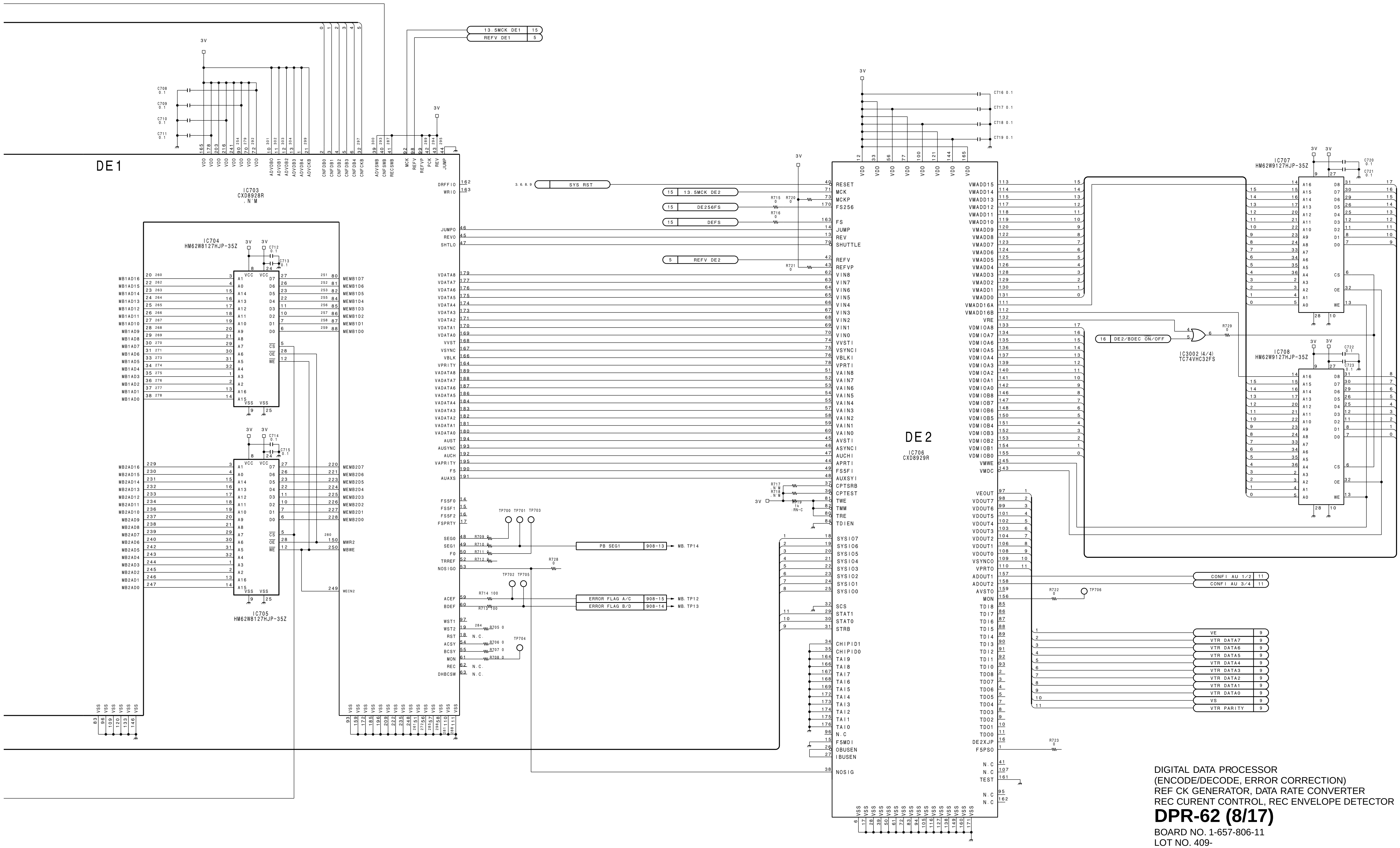
DIGITAL DATA PROCESSOR
(ENCODE/DECODE, ERROR CORRECTION)
REF CK GENERATOR, DATA RATE CONVERTER
REC CURENT CONTROL, REC ENVELOPE DETECTOR

DPR-62 (7/17)

BOARD NO. 1-657-806-11
LOT NO. 409-
B-¥DVW250-DPR62-12-S/M


1
2
3
4
5
A
B
C
D
E
F
G
H
RB700 47
CONFI B/D DATA 0
CONFI B/D DATA 1
CONFI B/D DATA 2
CONFI B/D DATA 3
CONFI B/D PARITY
R700 47
RB705 100k
RB701 47
CONFI A/C DATA 0
CONFI A/C DATA 1
CONFI A/C DATA 2
CONFI A/C DATA 3
CONFI A/C PARITY
16MCK DE1
CONFI A/C SEL
RB702 0
RB703 100k
RB704 100k
REC AC DATA 0
REC AC DATA 1
REC AC DATA 2
REC AC DATA 3
REC AC PARITY
16MCK DE1
REC BD DATA 0
REC BD DATA 1
REC BD DATA 2
REC BD DATA 3
REC BD PARITY
PAD 7
PAD 6
PAD 5
PAD 4
PAD 3
PAD 2
PAD 1
PAD 0
PSTB
PS 0
PS 1
SYS RST
DE1 ON/OFF
3V
C704 0.1
C705 0.1
C706 0.1
C707 0.1
IC700 CXD8928R
IC701 HM62W8127HJP-35Z
IC702 HM62W8127HJP-35Z
IC3002 (2/4) TC74VHC32FS
R730 0
R724 0
R725 0
R726 0
R727 0
R701 0
R702 0
R703 0
R704 0
RB706 0
RB707 0
ADVDA0
ADVDA1
ADVDA2
ADVDA3
ADVDA4
ADVCKA
CNFDA0
CNFDA1
CNFDA2
CNFDA3
CNFDA4
CNFCKA
ADVSWA
CNFSWA
RECSWA
RECDA0
RECDA1
RECDA2
RECDA3
RECDA4
RECCKA
RECDB0
RECDB1
RECDB2
RECDB3
RECDB4
RECCKB
SYSIO7
SYSIO6
SYSIO5
SYSIO4
SYSIO3
SYSIO2
SYSIO1
SYSIO0
STRB
SCS
STAT0
STAT1
CHIPID0
CHIPID1
RST1
RST2
CHSL
MS
XMM
RST 3
SYTEST
N.C.
MWR1
MAWE
WECN1
VDD
VSS
GCTL0
GCTL1
GCTL2
GCTL3
GCTL4
GCTL5
GTEST
TGTP1
TGTP2
TGTP3
STTP
MA1AD16
MA1AD0
MEMA1D7
MEMA1D0
MA2AD16
MA2AD0
MEMA2D7
MEMA2D0

DPR-62 (8/17)


1
2
3
4
5
DE1
IC703
CXD8928R
.N'M
IC704
HM62W8127HJP-35Z
IC705
HM62W8127HJP-35Z
13.5MCK DE1 15
REFV DE1 5
3V
SYS RST
13.5MCK DE2 15
DE256FS 15
DEFS 15
REFV DE2 5
DE2
IC706
CXD8929R
IC707
HM62W9127HJP-35Z
IC708
HM62W9127HJP-35Z
IC3002 (4/4)
TC74VHC32FS
16 DE2/BDEC ON/OFF
TP700 TP701 TP703
TP702 TP705
TP704
TP706
PB SEG1 908-13 MB. TP14
ERROR FLAG A/C 908-15 MB. TP12
ERROR FLAG B/D 908-14 MB. TP13
CONFI AU 1/2 11
CONFI AU 3/4 11
VE 9
VTR DATA7 9
VTR DATA6 9
VTR DATA5 9
VTR DATA4 9
VTR DATA3 9
VTR DATA2 9
VTR DATA1 9
VTR DATA0 9
VS 9
VTR PARITY 9

DIGITAL DATA PROCESSOR
(ENCODE/DECODE, ERROR CORRECTION)
REF CK GENERATOR, DATA RATE CONVERTER
REC CURENT CONTROL, REC ENVELOPE DETECTOR

DPR-62 (8/17)

BOARD NO. 1-657-806-11
LOT NO. 409-
B-¥DVW250-DPR62-12-S/M

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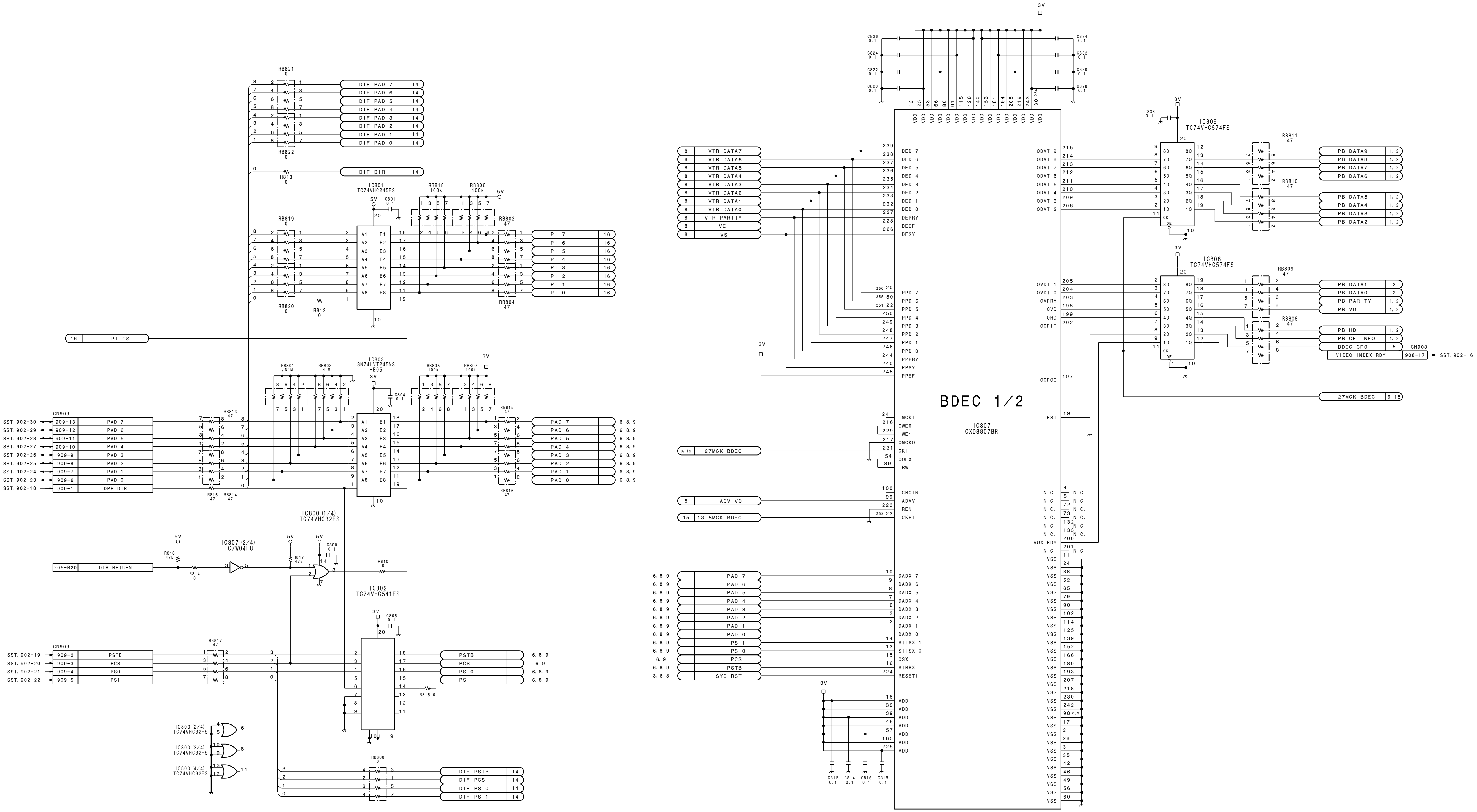
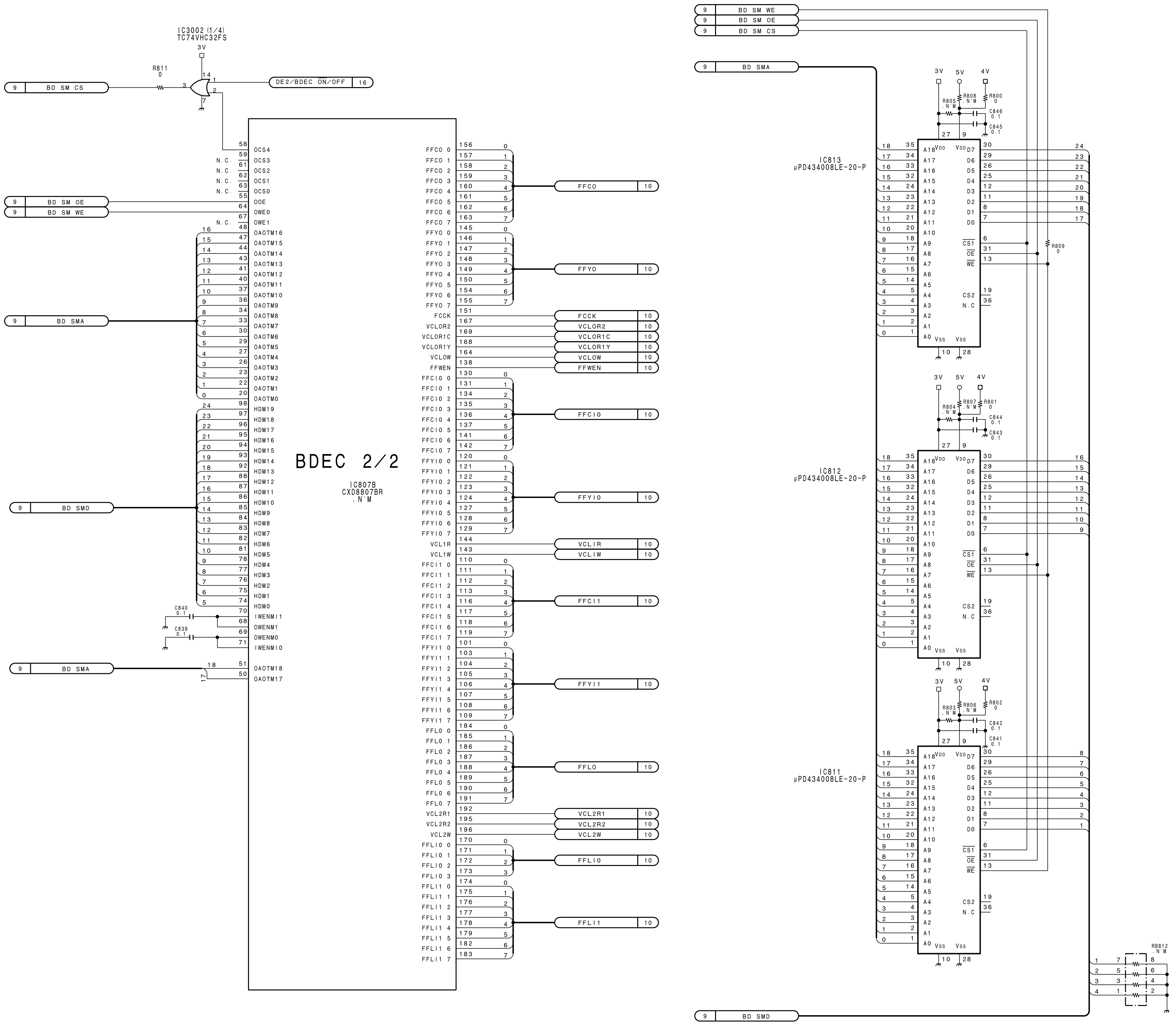
DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


BDEC 1/2
IC807
CXD8807BR
IC801
TC74VHC245FS
IC803
SN74LVT245NS
-E05
IC800 (1/4)
TC74VHC32FS
IC307 (2/4)
TC7W04FU
IC802
TC74VHC541FS
IC800 (2/4)
TC74VHC32FS
IC800 (3/4)
TC74VHC32FS
IC800 (4/4)
TC74VHC32FS
IC809
TC74VHC574FS
IC808
TC74VHC574FS
CN909
CN908
DIF PAD 7
DIF PAD 6
DIF PAD 5
DIF PAD 4
DIF PAD 3
DIF PAD 2
DIF PAD 1
DIF PAD 0
DIF DIR
PI 7
PI 6
PI 5
PI 4
PI 3
PI 2
PI 1
PI 0
PI CS
PAD 7
PAD 6
PAD 5
PAD 4
PAD 3
PAD 2
PAD 1
PAD 0
DPR DIR
DIR RETURN
PSTB
PCS
PS0
PS1
PS 0
PS 1
DIF PSTB
DIF PCS
DIF PS 0
DIF PS 1
VTR DATA7
VTR DATA6
VTR DATA5
VTR DATA4
VTR DATA3
VTR DATA2
VTR DATA1
VTR DATA0
VTR PARITY
VE
VS
27MCK BDEC
ADV VD
13.5MCK BDEC
PS 1
PS 0
PCS
PSTB
SYS RST
PB DATA9
PB DATA8
PB DATA7
PB DATA6
PB DATA5
PB DATA4
PB DATA3
PB DATA2
PB DATA1
PB DATA0
PB PARITY
PB VD
PB HD
PB CF INFO
BDEC CF0
VIDEO INDEX RDY
908-17
SST. 902-16
27MCK BDEC
SST. 902-30
SST. 902-29
SST. 902-28
SST. 902-27
SST. 902-26
SST. 902-25
SST. 902-24
SST. 902-23
SST. 902-18
SST. 902-19
SST. 902-20
SST. 902-21
SST. 902-22
205-B20
RB821
RB822
RB813
RB819
RB820
RB812
RB818 100k
RB806 100k
RB802 47
RB804 47
RB801 N.M
RB803 N.M
RB805 100k
RB807 100k
RB815 47
RB816 47
RB813 47
RB814 47
RB817 47
RB800 0
R818 47k
R814 0
R817 47k
R810 0
R815 0
RB811 47
RB810 47
RB809 47
RB808 47
C801 0.1
C804 0.1
C800 0.1
C805 0.1
C826 0.1
C824 0.1
C822 0.1
C820 0.1
C834 0.1
C832 0.1
C830 0.1
C828 0.1
C836 0.1
C812 0.1
C814 0.1
C816 0.1
C818 0.1
3V
5V
IDED 7
IDED 6
IDED 5
IDED 4
IDED 3
IDED 2
IDED 1
IDED 0
IDEPRY
IDEEF
IDESY
IPPD 7
IPPD 6
IPPD 5
IPPD 4
IPPD 3
IPPD 2
IPPD 1
IPPD 0
IPPPRY
IPPSY
IPPEF
IMCKI
OMEO
IWE1
OMCKO
CKI
OOEX
IRWI
ICRCIN
IADVV
IREN
ICKHI
DADX 7
DADX 6
DADX 5
DADX 4
DADX 3
DADX 2
DADX 1
DADX 0
STTSX 1
STTSX 0
CSX
STRBX
RESETI
ODVT 9
ODVT 8
ODVT 7
ODVT 6
ODVT 5
ODVT 4
ODVT 3
ODVT 2
OVDT 1
OVDT 0
OVPRY
OVD
OHD
OCFIF
OCFOO
TEST
N.C.
AUX RDY
VDD
VSS


IC3002 (1/4)
TC74VHC32FS
3V
R811
0
BD SM CS
DE2/BDEC ON/OFF
BD SM OE
BD SM WE
BD SMA
BD SMD
BDEC 2/2
IC807B
CXD8807BR
.N'M
OCS4
OCS3
OCS2
OCS1
OCS0
OOE
OWE0
OWE1
OAOTM16
OAOTM15
OAOTM14
OAOTM13
OAOTM12
OAOTM11
OAOTM10
OAOTM9
OAOTM8
OAOTM7
OAOTM6
OAOTM5
OAOTM4
OAOTM3
OAOTM2
OAOTM1
OAOTM0
HDM19
HDM0
IWENMI1
OWENM1
OWENM0
IWENMI0
OAOTM18
OAOTM17
C840
0.1
C839
0.1
N.C.
FFCO
FFYO
FCCK
VCLOR2
VCLOR1C
VCLOR1Y
VCLOW
FFWEN
FFCIO
FFYIO
VCL1R
VCL1W
FFCI1
FFYI1
FFLO
VCL2R1
VCL2R2
VCL2W
FFLIO
FFLI1
IC813
μPD434008LE-20-P
IC812
μPD434008LE-20-P
IC811
μPD434008LE-20-P
3V
5V
4V
R805
R808
R800
C846
C845
R804
R807
R801
C844
C843
R803
R806
R802
C842
C841
R809
RB812
N'M
VDD
VSS
CS1
OE
WE
CS2
N.C
BD SM WE
BD SM OE
BD SM CS
BD SMA
BD SMD

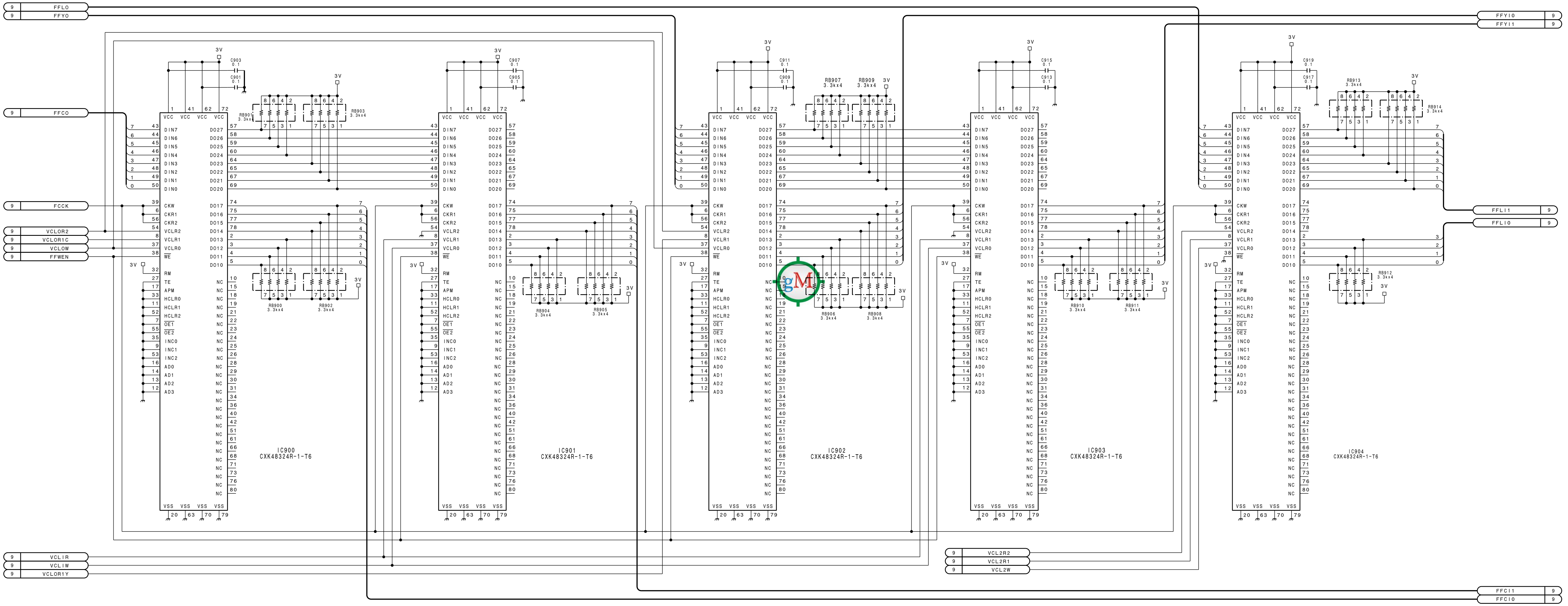
DIGITAL DATA PROCESSOR
(ENCODE/DECODE, ERROR CORRECTION)
REF CK GENERATOR, DATA RATE CONVERTER
REC CURENT CONTROL, REC ENVELOPE DETECTOR

DPR-62 (9/17)

BOARD NO. 1-657-806-11
LOT NO. 409-
B-¥DVW250-DPR62-12-S/M

DPR-62 (10/17)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


FFL0
FFY0
FFC0
FCCK
VCLOR2
VCLOR1C
VCLOW
FFWEN
VCL1R
VCL1W
VCLOR1Y
FFYI0
FFYI1
FFLI1
FFLI0
VCL2R2
VCL2R1
VCL2W
FFCI1
FFCI0
3V
C901 0.1
C903 0.1
C905 0.1
C907 0.1
C909 0.1
C911 0.1
C913 0.1
C915 0.1
C917 0.1
C919 0.1
RB900 3.3k×4
RB901 3.3k×4
RB902 3.3k×4
RB903 3.3k×4
RB904 3.3k×4
RB905 3.3k×4
RB906 3.3k×4
RB907 3.3k×4
RB908 3.3k×4
RB909 3.3k×4
RB910 3.3k×4
RB911 3.3k×4
RB912 3.3k×4
RB913 3.3k×4
RB914 3.3k×4
IC900 CXK48324R-1-T6
IC901 CXK48324R-1-T6
IC902 CXK48324R-1-T6
IC903 CXK48324R-1-T6
IC904 CXK48324R-1-T6
VCC
VSS
DIN7
DIN6
DIN5
DIN4
DIN3
DIN2
DIN1
DIN0
DO27
DO26
DO25
DO24
DO23
DO22
DO21
DO20
CKW
CKR1
CKR2
VCLR2
VCLR1
VCLR0
WE
DO17
DO16
DO15
DO14
DO13
DO12
DO11
DO10
RM
TE
APM
HCLR0
HCLR1
HCLR2
OE1
OE2
INC0
INC1
INC2
AD0
AD1
AD2
AD3
NC

DIGITAL DATA PROCESSOR
(ENCODE/DECODE, ERROR CORRECTION)
REF CK GENERATOR, DATA RATE CONVERTER
REC CURENT CONTROL, REC ENVELOPE DETECTOR

DPR-62 (10/17)

BOARD NO. 1-657-806-11
LOT NO. 409-
B-¥DVW250-DPR62-12-S/M

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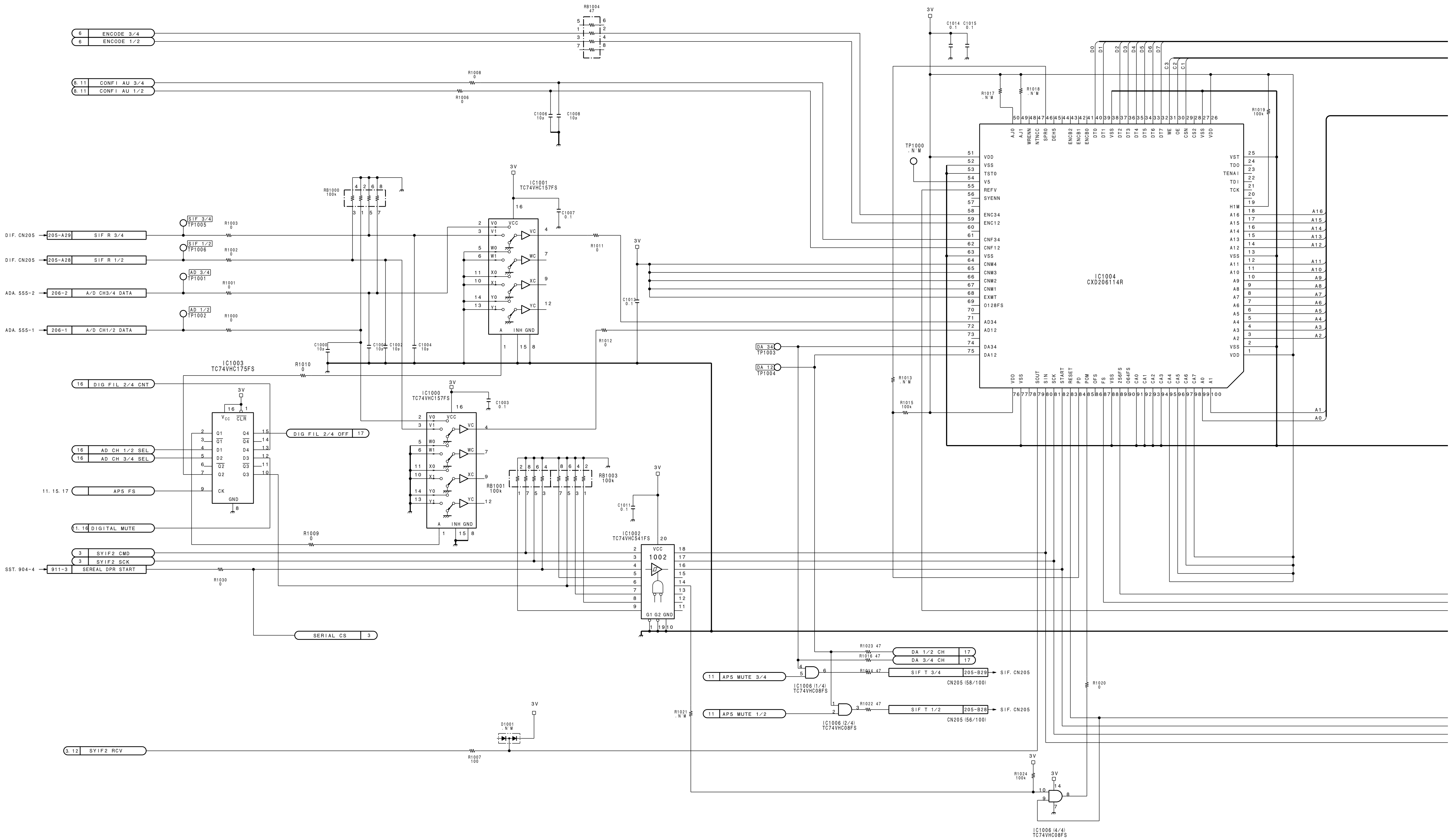
DPR-62 (11/17)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


1
2
3
4
5
RB1004 47
ENCODE 3/4
ENCODE 1/2
CONFI AU 3/4
CONFI AU 1/2
R1008 0
R1006 0
C1006 10μ
C1008 10μ
3V
C1014 0.1
C1015 0.1
R1017 :N.M
R1018 :N.M
R1019 100k
TP1000 :N.M
IC1004
CXD2061114R
D0 D1 D2 D3 D4 D5 D6 D7
C3 C2 C1
VDD VSS TST0 V5 REFV SYENN ENC34 ENC12 CNF34 CNF12 VSS CNM4 CNM3 CNM2 CNM1 EXMT O128FS AD34 AD12 DA34 DA12
VST TDO TENAI TDI TCK H1M A16 A15 A14 A13 A12 VSS A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 VSS VDD
A1
A0
RB1000 100k
IC1001
TC74VHC157FS
C1007 0.1
DIF. CN205
205-A29
SIF R 3/4
205-A28
SIF R 1/2
SIF 3/4 TP1005
SIF 1/2 TP1006
AD 3/4 TP1001
AD 1/2 TP1002
ADA. 555-2
206-2
A/D CH3/4 DATA
ADA. 555-1
206-1
A/D CH1/2 DATA
R1003 0
R1002 0
R1001 0
R1000 0
R1011 0
R1012 0
C1013 0.1
C1000 10μ
C1001 10μ
C1002 10μ
C1004 10μ
R1010 0
IC1003
TC74VHC175FS
DIG FIL 2/4 CNT
DIG FIL 2/4 OFF
AD CH 1/2 SEL
AD CH 3/4 SEL
11. 15. 17
AP5 FS
DIGITAL MUTE
IC1000
TC74VHC157FS
C1003 0.1
RB1001 100k
RB1003 100k
C1011 0.1
IC1002
TC74VHC541FS
1002
R1009 0
SYIF2 CMD
SYIF2 SCK
SST. 904-4
911-3
SEREAL DPR START
R1030 0
SERIAL CS
DA 34 TP1003
DA 12 TP1004
R1013 :N.M
R1015 100k
R1023 47
R1016 47
R1014 47
R1022 47
DA 1/2 CH
DA 3/4 CH
AP5 MUTE 3/4
AP5 MUTE 1/2
IC1006 (1/4) TC74VHC08FS
IC1006 (2/4) TC74VHC08FS
SIF T 3/4
205-B29
SIF. CN205
CN205 (58/100)
SIF T 1/2
205-B28
CN205 (56/100)
R1020 0
R1021 :N.M
D1001 :N.M
SYIF2 RCV
R1007 100
R1024 100k
IC1006 (4/4) TC74VHC08FS

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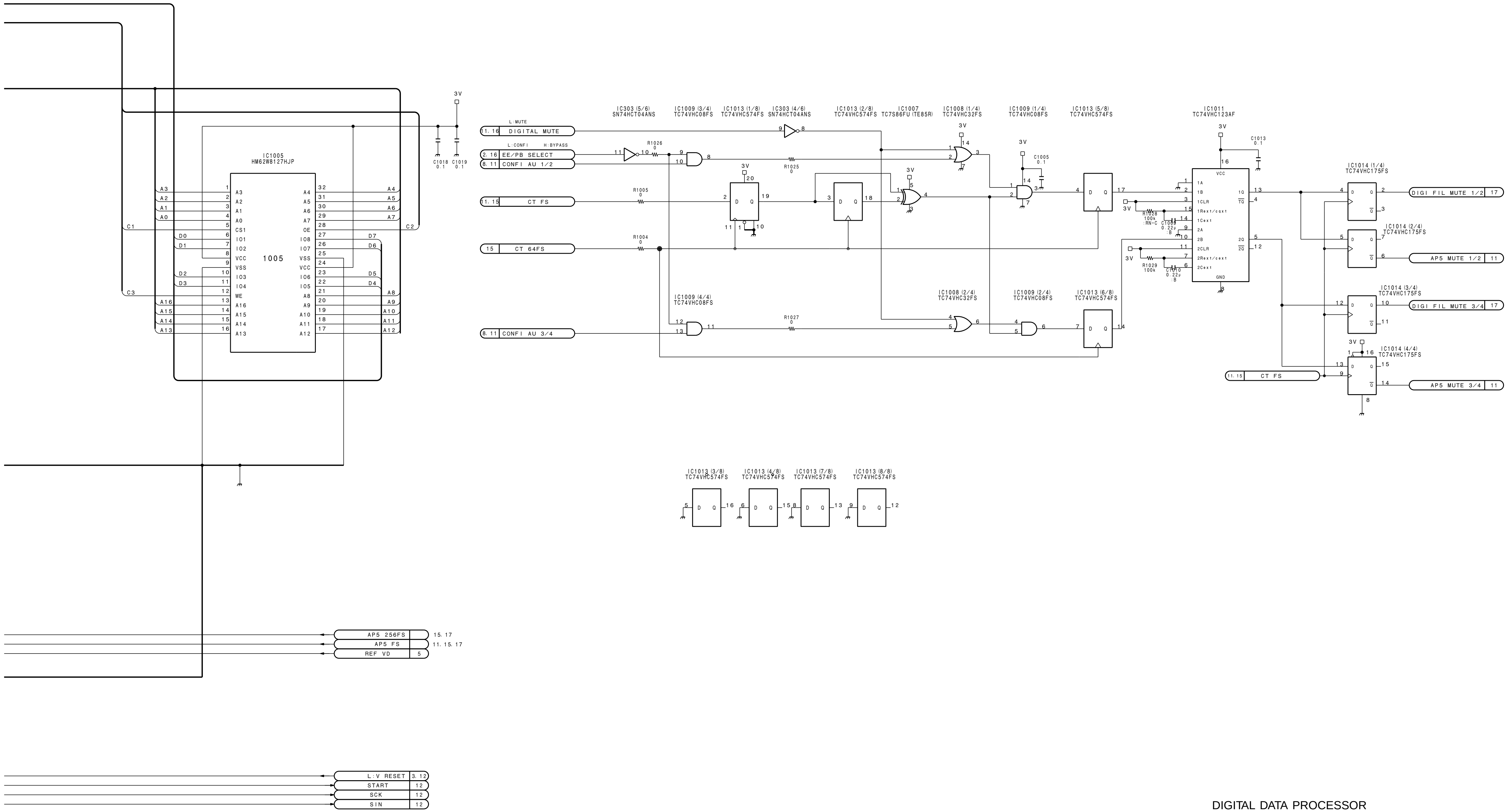
A B C D E F G H

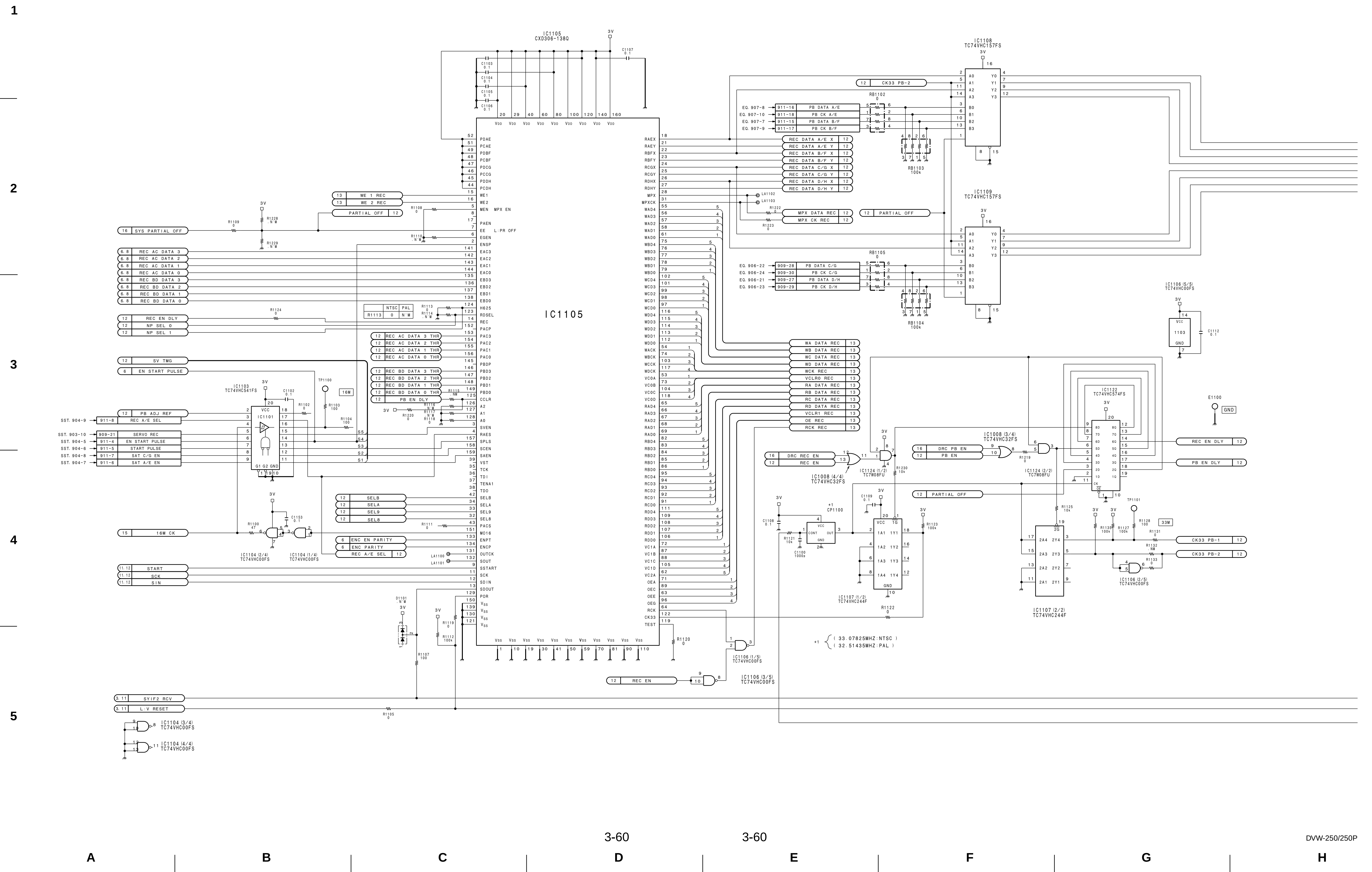

IC1005
HM62W8127HJP
1005
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
D0
D1
D2
D3
D4
D5
D6
D7
C1
C2
C3
CS1
OE
WE
VCC
VSS
IO1
IO2
IO3
IO4
IO5
IO6
IO7
IO8
3V
C1018 0.1
C1019 0.1
L:MUTE
11, 16 DIGITAL MUTE
L:CONFI
H:BYPASS
2, 16 EE/PB SELECT
8, 11 CONFI AU 1/2
11, 15 CT FS
15 CT 64FS
8, 11 CONFI AU 3/4
IC303 (5/6) SN74HCT04ANS
IC1009 (3/4) TC74VHC08FS
IC1013 (1/8) TC74VHC574FS
IC303 (4/6) SN74HCT04ANS
IC1013 (2/8) TC74VHC574FS
IC1007 TC7S86FU (TE85R)
IC1008 (1/4) TC74VHC32FS
IC1009 (1/4) TC74VHC08FS
IC1013 (5/8) TC74VHC574FS
IC1011 TC74VHC123AF
IC1009 (4/4) TC74VHC08FS
IC1008 (2/4) TC74VHC32FS
IC1009 (2/4) TC74VHC08FS
IC1013 (6/8) TC74VHC574FS
R1026 0
R1025 0
R1005 0
R1004 0
R1027 0
C1005 0.1
C1013 0.1
R1028 100k :RN-C
C1009 0.22μ :B
R1029 100k
C1010 0.22μ :B
VCC
GND
1A
1B
1CLR
1Rext/cqxt
1Cext
2A
2B
2CLR
2Rext/cext
2Cext
1Q
1Q
2Q
2Q
D
Q
IC1014 (1/4) TC74VHC175FS
IC1014 (2/4) TC74VHC175FS
IC1014 (3/4) TC74VHC175FS
IC1014 (4/4) TC74VHC175FS
DIGI FIL MUTE 1/2 17
AP5 MUTE 1/2 11
DIGI FIL MUTE 3/4 17
AP5 MUTE 3/4 11
11, 15 CT FS
IC1013 (3/8) TC74VHC574FS
IC1013 (4/8) TC74VHC574FS
IC1013 (7/8) TC74VHC574FS
IC1013 (8/8) TC74VHC574FS
AP5 256FS 15, 17
AP5 FS 11, 15, 17
REF VD 5
L:V RESET 3, 12
START 12
SCK 12
SIN 12

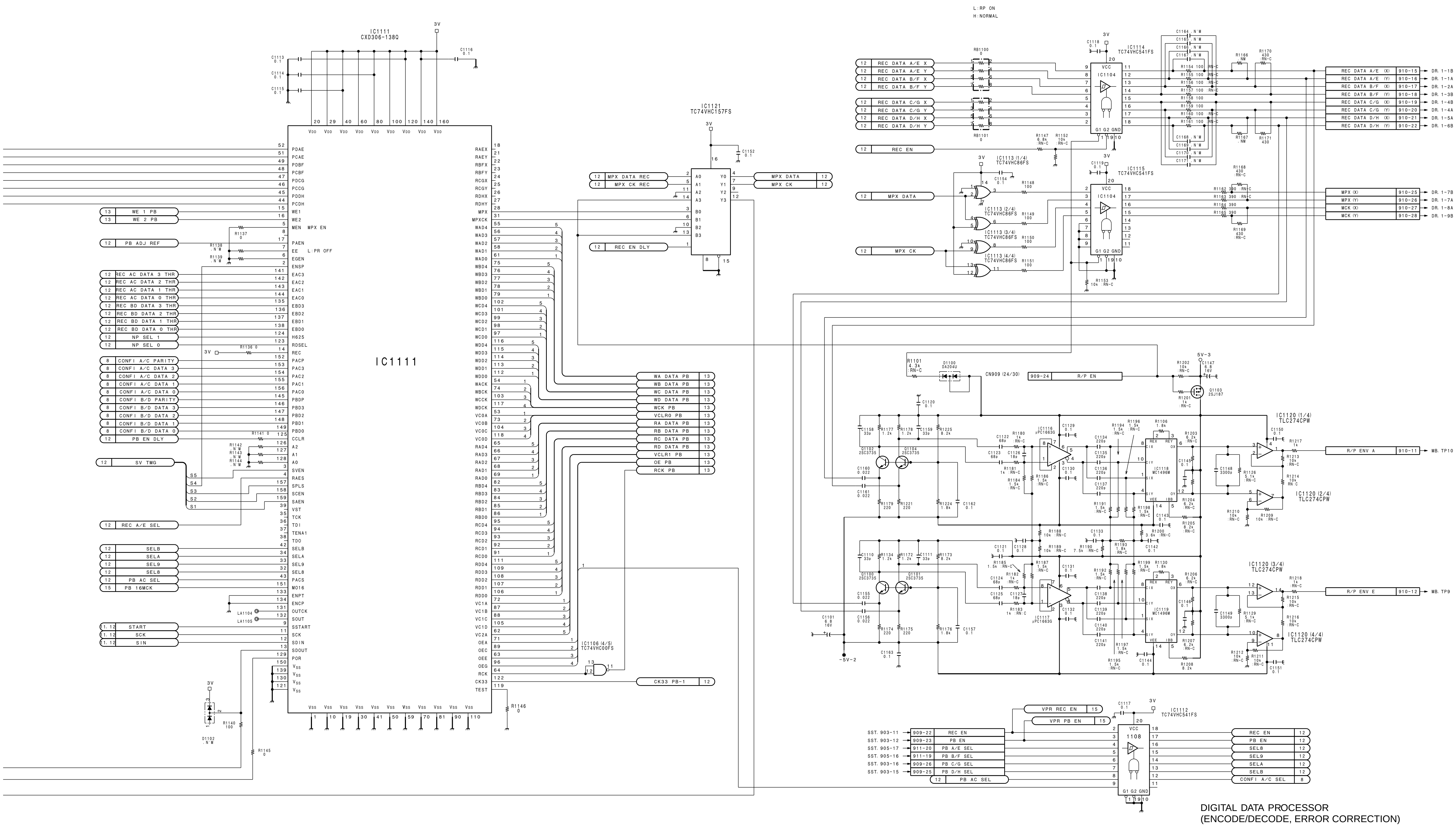
DIGITAL DATA PROCESSOR
(ENCODE/DECODE, ERROR CORRECTION)
REF CK GENERATOR, DATA RATE CONVERTER
REC CURENT CONTROL, REC ENVELOPE DETECTOR

DPR-62 (11/17)

BOARD NO. 1-657-806-11
LOT NO. 409-
B-¥DVW250-DPR62-12-S/M

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


1
2
3
4
5
A
B
C
D
E
F
G
H
IC1105
CXD306-138Q
IC1108
TC74VHC157FS
IC1109
TC74VHC157FS
IC1103
TC74VHC541FS
IC1101
IC1104 (2/4)
TC74VHC00FS
IC1104 (1/4)
TC74VHC00FS
IC1104 (3/4)
TC74VHC00FS
IC1104 (4/4)
TC74VHC00FS
IC1106 (1/5)
TC74VHC00FS
IC1106 (2/5)
TC74VHC00FS
IC1106 (3/5)
TC74VHC00FS
IC1106 (5/5)
TC74VHC00FS
IC1008 (3/4)
TC74VHC32FS
IC1008 (4/4)
TC74VHC32FS
IC1124 (1/2)
TC7W08FU
IC1124 (2/2)
TC7W08FU
IC1107 (1/2)
TC74VHC244F
IC1107 (2/2)
TC74VHC244F
IC1122
TC74VHC574FS
CP1100
RB1102
RB1103
RB1104
RB1105
SYS PARTIAL OFF
REC AC DATA 3
REC AC DATA 2
REC AC DATA 1
REC AC DATA 0
REC BD DATA 3
REC BD DATA 2
REC BD DATA 1
REC BD DATA 0
REC EN DLY
NP SEL 0
NP SEL 1
SV TMG
EN START PULSE
PB ADJ REF
REC A/E SEL
SERVO REC
EN START PULSE
START PULSE
SAT C/G EN
SAT A/E EN
16M CK
START
SCK
SIN
SYIF2 RCV
L:V RESET
WE 1 REC
WE 2 REC
PARTIAL OFF
SELB
SELA
SEL9
SEL8
ENC EN PARITY
ENC PARITY
REC A/E SEL
PB DATA A/E
PB CK A/E
PB DATA B/F
PB CK B/F
PB DATA C/G
PB CK C/G
PB DATA D/H
PB CK D/H
REC DATA A/E X
REC DATA A/E Y
REC DATA B/F X
REC DATA B/F Y
REC DATA C/G X
REC DATA C/G Y
REC DATA D/H X
REC DATA D/H Y
MPX DATA REC
MPX CK REC
CK33 PB-2
WA DATA REC
WB DATA REC
WC DATA REC
WD DATA REC
WCK REC
VCLR0 REC
RA DATA REC
RB DATA REC
RC DATA REC
RD DATA REC
VCLR1 REC
OE REC
RCK REC
DRC REC EN
REC EN
DRC PB EN
PB EN
PB EN DLY
CK33 PB-1
CK33 PB-2
GND
E1100
TP1100
TP1101
16M
33M
*1 (33.07825MHZ:NTSC)
(32.51435MHZ:PAL)
NTSC PAL
R1113 0 N'M


1
2
3
4
5
IC1111
CXD306-138Q
IC1121
TC74VHC157FS
IC1114
TC74VHC541FS
IC1115
TC74VHC541FS
IC1113 (1/4)
TC74VHC86FS
IC1113 (2/4)
IC1113 (3/4)
IC1113 (4/4)
IC1106 (4/5)
TC74VHC00FS
IC1116
µPC1663G
IC1117
µPC1663G
IC1118
MC1496M
IC1119
MC1496M
IC1120 (1/4)
TLC274CPW
IC1120 (2/4)
IC1120 (3/4)
IC1120 (4/4)
IC1112
TC74VHC541FS
3V
5V-3
-5V-2
L:RP ON
H:NORMAL
L:PR OFF
CN909 (24/30)
R/P EN
REC DATA A/E X
REC DATA A/E Y
REC DATA B/F X
REC DATA B/F Y
REC DATA C/G X
REC DATA C/G Y
REC DATA D/H X
REC DATA D/H Y
REC EN
MPX DATA
MPX CK
MPX DATA REC
MPX CK REC
REC EN DLY
MPX (X)
MPX (Y)
MCK (X)
MCK (Y)
R/P ENV A
R/P ENV E
MB. TP10
MB. TP9
WE 1 PB
WE 2 PB
PB ADJ REF
REC AC DATA 3 THR
REC AC DATA 2 THR
REC AC DATA 1 THR
REC AC DATA 0 THR
REC BD DATA 3 THR
REC BD DATA 2 THR
REC BD DATA 1 THR
REC BD DATA 0 THR
NP SEL 1
NP SEL 0
CONFI A/C PARITY
CONFI A/C DATA 3
CONFI A/C DATA 2
CONFI A/C DATA 1
CONFI A/C DATA 0
CONFI B/D PARITY
CONFI B/D DATA 3
CONFI B/D DATA 2
CONFI B/D DATA 1
CONFI B/D DATA 0
PB EN DLY
SV TMG
REC A/E SEL
SELB
SELA
SEL9
SEL8
PB AC SEL
PB 16MCK
START
SCK
SIN
WA DATA PB
WB DATA PB
WC DATA PB
WD DATA PB
WCK PB
RA DATA PB
RB DATA PB
RC DATA PB
RD DATA PB
VCLR0 PB
VCLR1 PB
OE PB
RCK PB
CK33 PB-1
VPR REC EN
VPR PB EN
REC EN
PB EN
PB A/E SEL
PB B/F SEL
PB C/G SEL
PB D/H SEL
CONFI A/C SEL
SST. 903-11
SST. 903-12
SST. 905-17
SST. 905-16
SST. 903-16
SST. 903-15
DR. 1-1B
DR. 1-1A
DR. 1-2A
DR. 1-3B
DR. 1-4B
DR. 1-4A
DR. 1-5A
DR. 1-6B
DR. 1-7B
DR. 1-7A
DR. 1-8A
DR. 1-9B
Q1100
Q1101
Q1102
Q1104
2SC3735
Q1103
2SJ187
D1100
DA204U
D1102
LA1104
LA1105

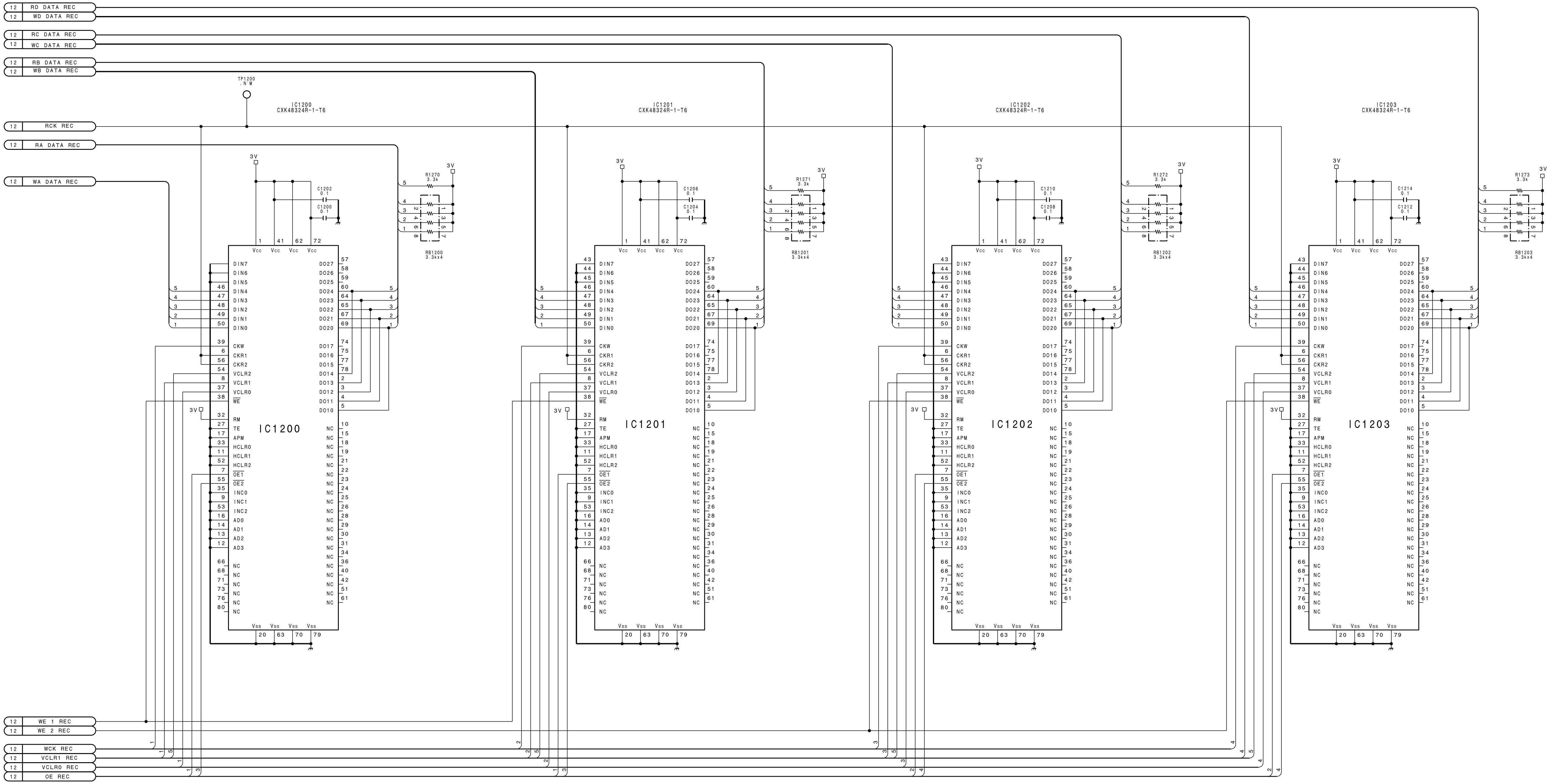
DIGITAL DATA PROCESSOR
(ENCODE/DECODE, ERROR CORRECTION)
REF CK GENERATOR, DATA RATE CONVERTER
REC CURENT CONTROL, REC ENVELOPE DETECTOR

DPR-62 (12/17)

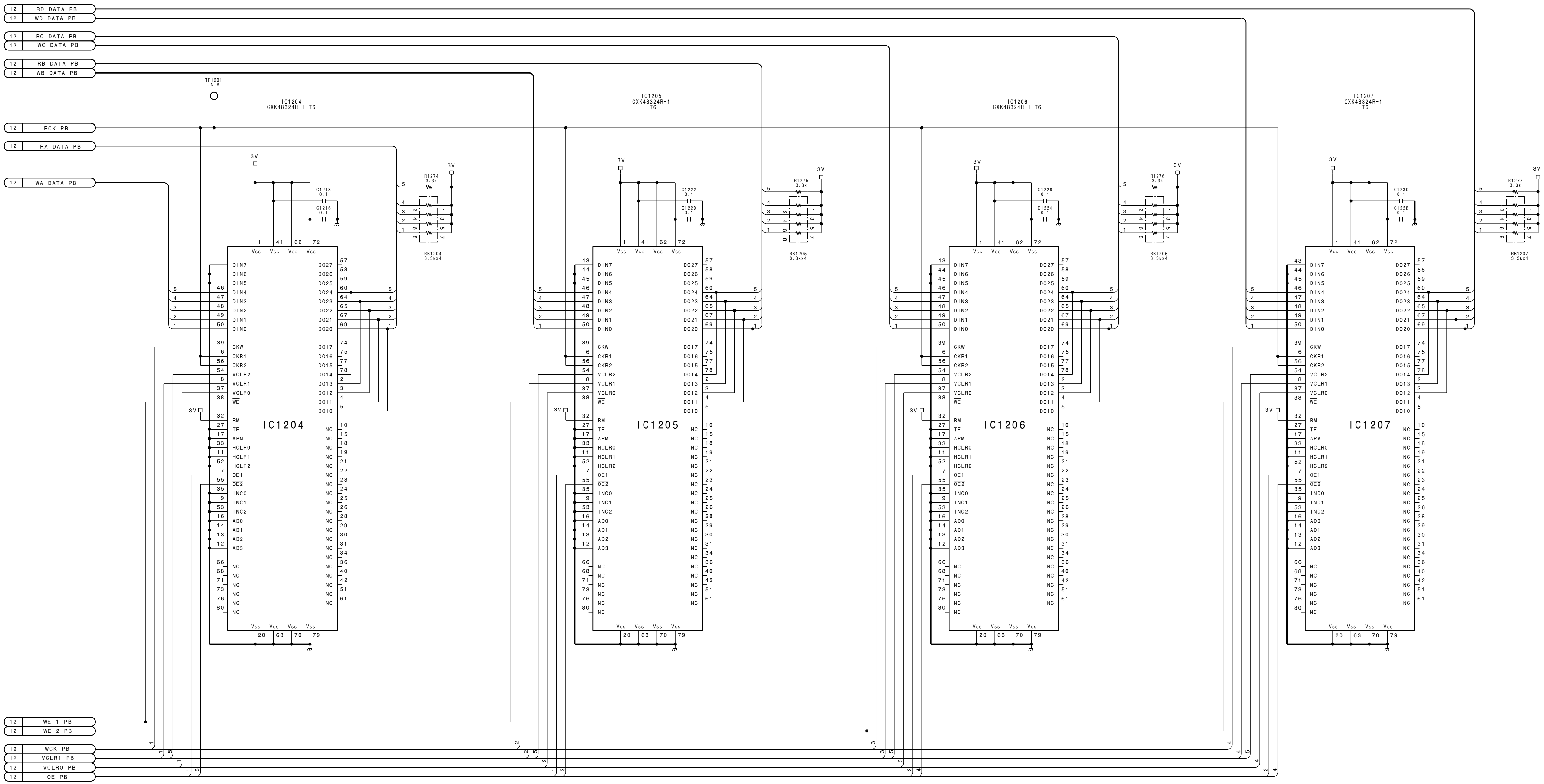
BOARD NO. 1-657-806-11
LOT NO. 409-
B-¥DVW250-DPR62-12-S/M

DPR-62 (13/17)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


RD DATA REC
WD DATA REC
RC DATA REC
WC DATA REC
RB DATA REC
WB DATA REC
RCK REC
RA DATA REC
WA DATA REC
WE 1 REC
WE 2 REC
WCK REC
VCLR1 REC
VCLR0 REC
OE REC
TP1200 N.M
IC1200 CXK48324R-1-T6
IC1201 CXK48324R-1-T6
IC1202 CXK48324R-1-T6
IC1203 CXK48324R-1-T6
IC1200
IC1201
IC1202
IC1203
3V
C1200 0.1
C1202 0.1
C1204 0.1
C1206 0.1
C1208 0.1
C1210 0.1
C1212 0.1
C1214 0.1
R1270 3.3k
R1271 3.3k
R1272 3.3k
R1273 3.3k
RB1200 3.3k×4
RB1201 3.3k×4
RB1202 3.3k×4
RB1203 3.3k×4
Vcc
Vss
DIN7
DIN6
DIN5
DIN4
DIN3
DIN2
DIN1
DIN0
CKW
CKR1
CKR2
VCLR2
VCLR1
VCLR0
WE
RM
TE
APM
HCLR0
HCLR1
HCLR2
OE1
OE2
INC0
INC1
INC2
AD0
AD1
AD2
AD3
NC
DO27
DO26
DO25
DO24
DO23
DO22
DO21
DO20
DO17
DO16
DO15
DO14
DO13
DO12
DO11
DO10

3-62


12 RD DATA PB
12 WD DATA PB
12 RC DATA PB
12 WC DATA PB
12 RB DATA PB
12 WB DATA PB
TP1201
,N'M
12 RCK PB
12 RA DATA PB
12 WA DATA PB
IC1204
CXK48324R-1-T6
IC1205
CXK48324R-1
-T6
IC1206
CXK48324R-1-T6
IC1207
CXK48324R-1
-T6
3V
C1218
0.1
C1216
0.1
R1274
3.3k
RB1204
3.3kx4
C1222
0.1
C1220
0.1
R1275
3.3k
RB1205
3.3kx4
C1226
0.1
C1224
0.1
R1276
3.3k
RB1206
3.3kx4
C1230
0.1
C1228
0.1
R1277
3.3k
RB1207
3.3kx4
Vcc Vcc Vcc Vcc
1 41 62 72
DIN7
DIN6
DIN5
DIN4
DIN3
DIN2
DIN1
DIN0
CKW
CKR1
CKR2
VCLR2
VCLR1
VCLR0
WE
RM
TE
APM
HCLR0
HCLR1
HCLR2
OE1
OE2
INC0
INC1
INC2
AD0
AD1
AD2
AD3
NC
DO27
DO26
DO25
DO24
DO23
DO22
DO21
DO20
DO17
DO16
DO15
DO14
DO13
DO12
DO11
DO10
Vss Vss Vss Vss
20 63 70 79
IC1204
IC1205
IC1206
IC1207
12 WE 1 PB
12 WE 2 PB
12 WCK PB
12 VCLR1 PB
12 VCLR0 PB
12 OE PB

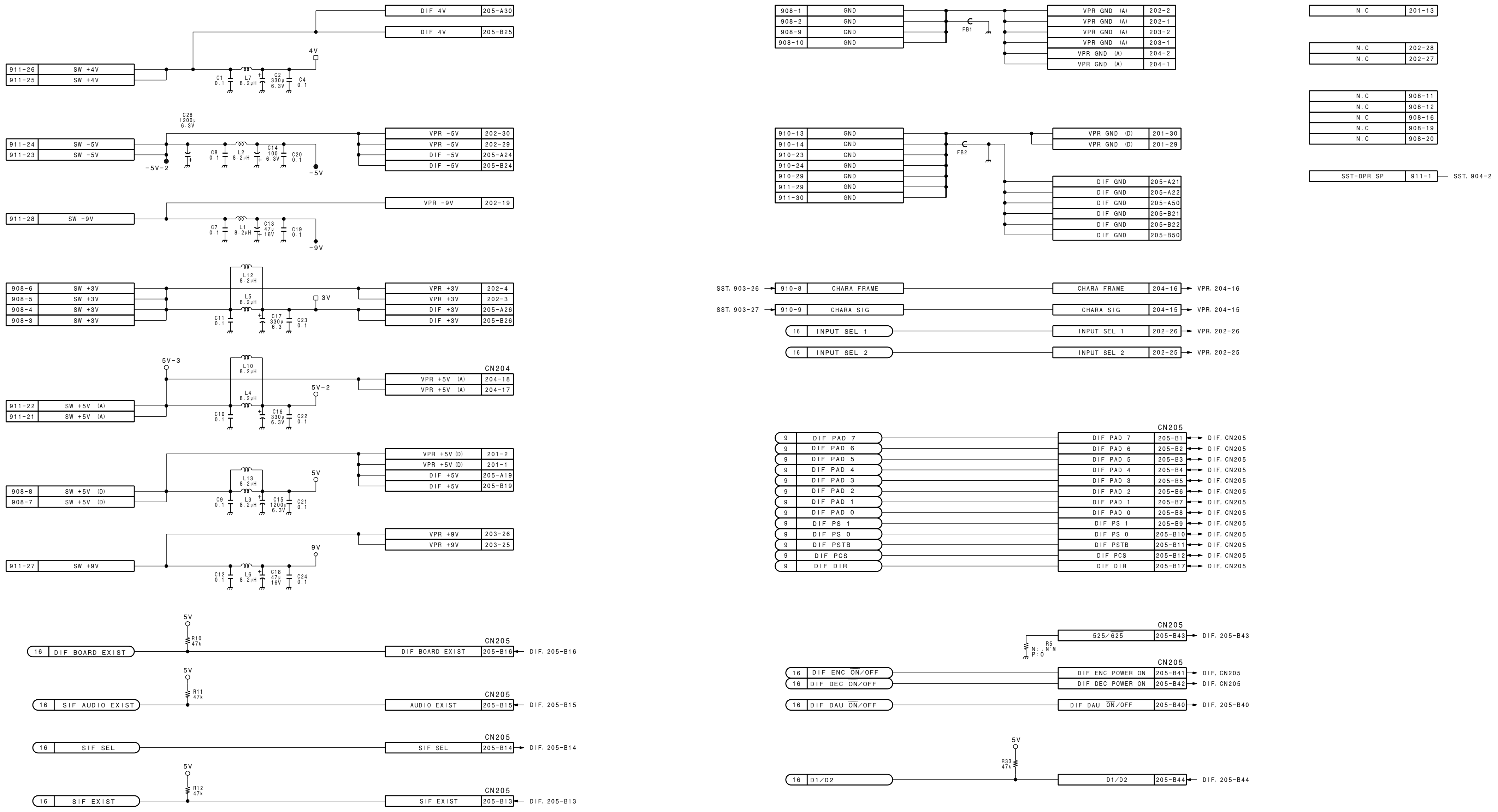
DIGITAL DATA PROCESSOR
(ENCODE/DECODE, ERROR CORRECTION)
REF CK GENERATOR, DATA RATE CONVERTER
REC CURENT CONTROL, REC ENVELOPE DETECTOR

DPR-62 (13/17)

BOARD NO. 1-657-806-11
LOT NO. 409-
B-¥DVW250-DPR62-12-S/M

DPR-62 (14/17)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


911-26 SW +4V
911-25 SW +4V
DIF 4V 205-A30
DIF 4V 205-B25
4V
C1 0.1
L7 8.2μH
C2 330μ 6.3V
C4 0.1
911-24 SW -5V
911-23 SW -5V
-5V-2
C28 1200μ 6.3V
C8 0.1
L2 8.2μH
C14 100 6.3V
C20 0.1
-5V
VPR -5V 202-30
VPR -5V 202-29
DIF -5V 205-A24
DIF -5V 205-B24
911-28 SW -9V
VPR -9V 202-19
C7 0.1
L1 8.2μH
C13 47μ 16V
C19 0.1
-9V
908-6 SW +3V
908-5 SW +3V
908-4 SW +3V
908-3 SW +3V
L12 8.2μH
L5 8.2μH
C11 0.1
C17 330μ 6.3
C23 0.1
3V
VPR +3V 202-4
VPR +3V 202-3
DIF +3V 205-A26
DIF +3V 205-B26
5V-3
L10 8.2μH
L4 8.2μH
5V-2
CN204
VPR +5V (A) 204-18
VPR +5V (A) 204-17
911-22 SW +5V (A)
911-21 SW +5V (A)
C10 0.1
C16 330μ 6.3V
C22 0.1
VPR +5V (D) 201-2
VPR +5V (D) 201-1
DIF +5V 205-A19
DIF +5V 205-B19
5V
908-8 SW +5V (D)
908-7 SW +5V (D)
L13 8.2μH
C9 0.1
L3 8.2μH
C15 1200μ 6.3V
C21 0.1
VPR +9V 203-26
VPR +9V 203-25
9V
911-27 SW +9V
C12 0.1
L6 8.2μH
C18 47μ 16V
C24 0.1
5V
R10 47k
16 DIF BOARD EXIST
CN205
DIF BOARD EXIST 205-B16
DIF. 205-B16
5V
R11 47k
16 SIF AUDIO EXIST
CN205
AUDIO EXIST 205-B15
DIF. 205-B15
16 SIF SEL
CN205
SIF SEL 205-B14
DIF. 205-B14
5V
R12 47k
16 SIF EXIST
CN205
SIF EXIST 205-B13
DIF. 205-B13
908-1 GND
908-2 GND
908-9 GND
908-10 GND
FB1
VPR GND (A) 202-2
VPR GND (A) 202-1
VPR GND (A) 203-2
VPR GND (A) 203-1
VPR GND (A) 204-2
VPR GND (A) 204-1
910-13 GND
910-14 GND
910-23 GND
910-24 GND
910-29 GND
911-29 GND
911-30 GND
FB2
VPR GND (D) 201-30
VPR GND (D) 201-29
DIF GND 205-A21
DIF GND 205-A22
DIF GND 205-A50
DIF GND 205-B21
DIF GND 205-B22
DIF GND 205-B50
SST. 903-26 910-8 CHARA FRAME
CHARA FRAME 204-16 VPR. 204-16
SST. 903-27 910-9 CHARA SIG
CHARA SIG 204-15 VPR. 204-15
16 INPUT SEL 1
INPUT SEL 1 202-26 VPR. 202-26
16 INPUT SEL 2
INPUT SEL 2 202-25 VPR. 202-25
CN205
9 DIF PAD 7 — DIF PAD 7 205-B1 DIF. CN205
9 DIF PAD 6 — DIF PAD 6 205-B2 DIF. CN205
9 DIF PAD 5 — DIF PAD 5 205-B3 DIF. CN205
9 DIF PAD 4 — DIF PAD 4 205-B4 DIF. CN205
9 DIF PAD 3 — DIF PAD 3 205-B5 DIF. CN205
9 DIF PAD 2 — DIF PAD 2 205-B6 DIF. CN205
9 DIF PAD 1 — DIF PAD 1 205-B7 DIF. CN205
9 DIF PAD 0 — DIF PAD 0 205-B8 DIF. CN205
9 DIF PS 1 — DIF PS 1 205-B9 DIF. CN205
9 DIF PS 0 — DIF PS 0 205-B10 DIF. CN205
9 DIF PSTB — DIF PSTB 205-B11 DIF. CN205
9 DIF PCS — DIF PCS 205-B12 DIF. CN205
9 DIF DIR — DIF DIR 205-B17 DIF. CN205
CN205
R5 N.M
R2 0
525/625 205-B43 DIF. 205-B43
CN205
16 DIF ENC ON/OFF — DIF ENC POWER ON 205-B41 DIF. CN205
16 DIF DEC ON/OFF — DIF DEC POWER ON 205-B42 DIF. CN205
16 DIF DAU ON/OFF — DIF DAU ON/OFF 205-B40 DIF. 205-B40
5V
R33 47k
16 D1/D2 — D1/D2 205-B44 DIF. 205-B44
N.C 201-13
N.C 202-28
N.C 202-27
N.C 908-11
N.C 908-12
N.C 908-16
N.C 908-19
N.C 908-20
SST-DPR SP 911-1 SST. 904-2

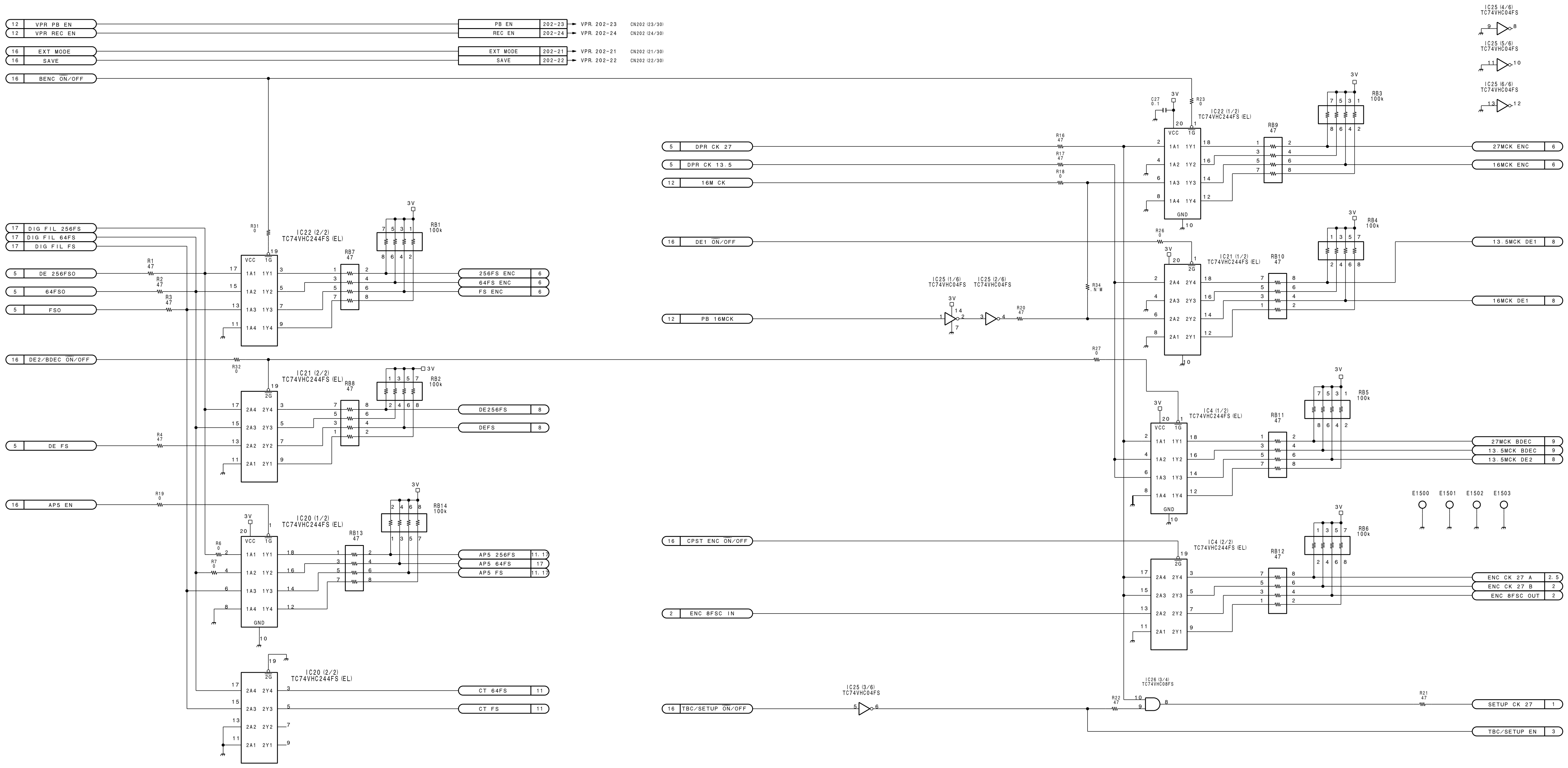
DIGITAL DATA PROCESSOR
(ENCODE/DECODE, ERROR CORRECTION)
REF CK GENERATOR, DATA RATE CONVERTER
REC CURENT CONTROL, REC ENVELOPE DETECTOR

DPR-62 (14/17)

BOARD NO. 1-657-806-11
LOT NO. 409-
B-¥DVW250-DPR62-12-S/M

DPR-62 (15/17)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


VPR PB EN
VPR REC EN
EXT MODE
SAVE
BENC ON/OFF
PB EN
REC EN
VPR 202-23
VPR 202-24
VPR 202-21
VPR 202-22
CN202 (23/30)
CN202 (24/30)
CN202 (21/30)
CN202 (22/30)
DIG FIL 256FS
DIG FIL 64FS
DIG FIL FS
DE 256FSO
64FSO
FSO
IC22 (2/2) TC74VHC244FS (EL)
RB7 47
RB1 100k
256FS ENC
64FS ENC
FS ENC
DE2/BDEC ON/OFF
IC21 (2/2) TC74VHC244FS (EL)
RB8 47
RB2 100k
DE256FS
DEFS
DE FS
AP5 EN
IC20 (1/2) TC74VHC244FS (EL)
RB13 47
RB14 100k
AP5 256FS
AP5 64FS
AP5 FS
IC20 (2/2) TC74VHC244FS (EL)
CT 64FS
CT FS
DPR CK 27
DPR CK 13.5
16M CK
DE1 ON/OFF
PB 16MCK
IC25 (1/6) TC74VHC04FS
IC25 (2/6) TC74VHC04FS
IC22 (1/2) TC74VHC244FS (EL)
RB9 47
RB3 100k
27MCK ENC
16MCK ENC
IC21 (1/2) TC74VHC244FS (EL)
RB10 47
RB4 100k
13.5MCK DE1
16MCK DE1
IC4 (1/2) TC74VHC244FS (EL)
RB11 47
RB5 100k
27MCK BDEC
13.5MCK BDEC
13.5MCK DE2
E1500
E1501
E1502
E1503
CPST ENC ON/OFF
IC4 (2/2) TC74VHC244FS (EL)
RB12 47
RB6 100k
ENC CK 27 A
ENC CK 27 B
ENC 8FSC OUT
ENC 8FSC IN
TBC/SETUP ON/OFF
IC25 (3/6) TC74VHC04FS
IC26 (3/4) TC74VHC08FS
SETUP CK 27
TBC/SETUP EN
IC25 (4/6) TC74VHC04FS
IC25 (5/6) TC74VHC04FS
IC25 (6/6) TC74VHC04FS
3V

DIGITAL DATA PROCESSOR
(ENCODE/DECODE, ERROR CORRECTION)
REF CK GENERATOR, DATA RATE CONVERTER
REC CURENT CONTROL, REC ENVELOPE DETECTOR

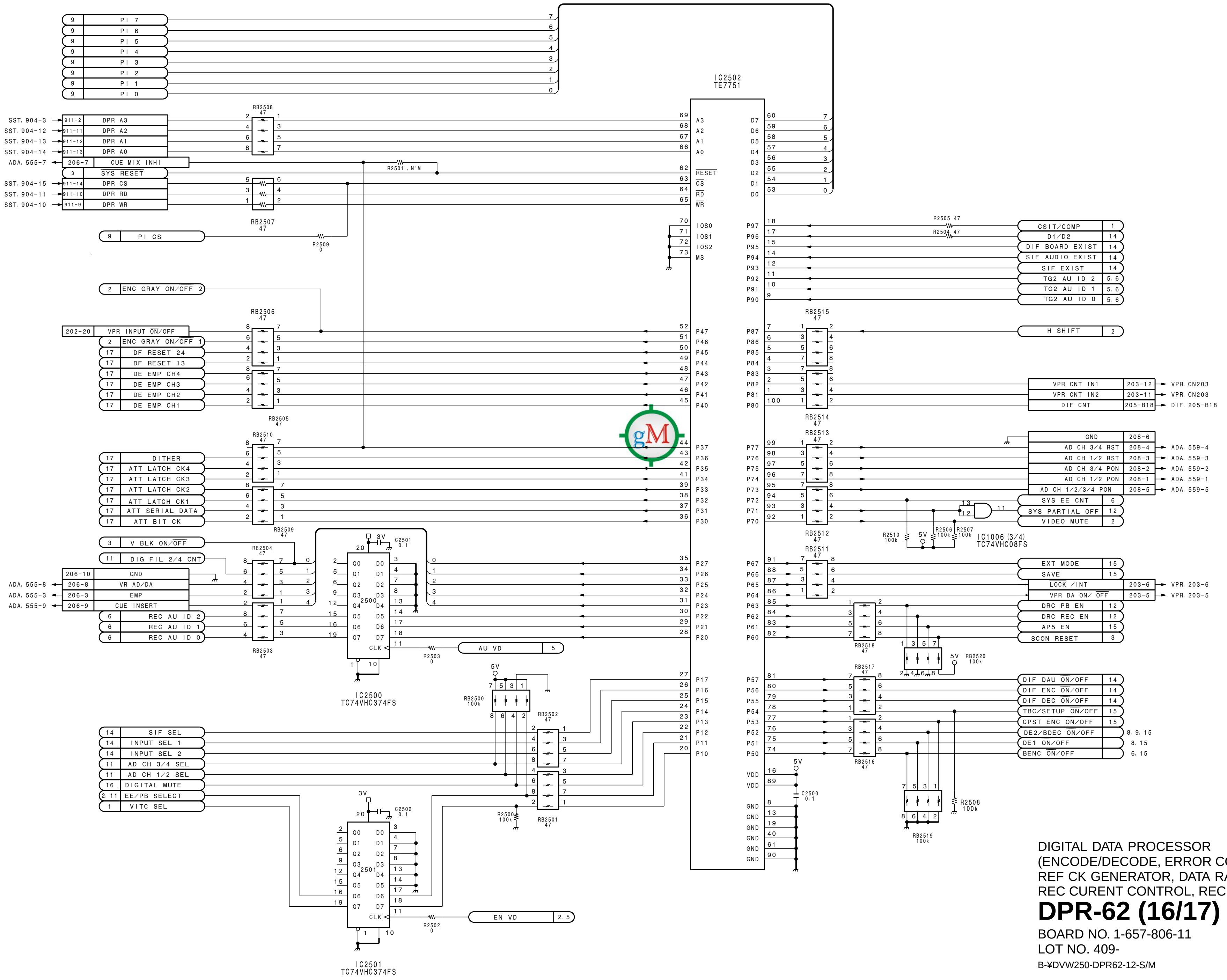
DPR-62 (15/17)

BOARD NO. 1-657-806-11
LOT NO. 409-
B-¥DVW250-DPR62-12-S/M

3-65

DPR-62 (16/17)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


IC2502
TE7751
IC2500
TC74VHC374FS
IC2501
TC74VHC374FS
IC1006 (3/4)
TC74VHC08FS
PI 7
PI 6
PI 5
PI 4
PI 3
PI 2
PI 1
PI 0
DPR A3
DPR A2
DPR A1
DPR A0
CUE MIX INHI
SYS RESET
DPR CS
DPR RD
DPR WR
PI CS
ENC GRAY ON/OFF
VPR INPUT ON/OFF
DF RESET 24
DF RESET 13
DE EMP CH4
DE EMP CH3
DE EMP CH2
DE EMP CH1
DITHER
ATT LATCH CK4
ATT LATCH CK3
ATT LATCH CK2
ATT LATCH CK1
ATT SERIAL DATA
ATT BIT CK
V BLK ON/OFF
DIG FIL 2/4 CNT
GND
VR AD/DA
EMP
CUE INSERT
REC AU ID 2
REC AU ID 1
REC AU ID 0
AU VD
SIF SEL
INPUT SEL 1
INPUT SEL 2
AD CH 3/4 SEL
AD CH 1/2 SEL
DIGITAL MUTE
EE/PB SELECT
VITC SEL
EN VD
CSIT/COMP
D1/D2
DIF BOARD EXIST
SIF AUDIO EXIST
SIF EXIST
TG2 AU ID 2
TG2 AU ID 1
TG2 AU ID 0
H SHIFT
VPR CNT IN1
VPR CNT IN2
DIF CNT
AD CH 3/4 RST
AD CH 1/2 RST
AD CH 3/4 PON
AD CH 1/2 PON
AD CH 1/2/3/4 PON
SYS EE CNT
SYS PARTIAL OFF
VIDEO MUTE
EXT MODE
SAVE
LOCK /INT
VPR DA ON/OFF
DRC PB EN
DRC REC EN
APS EN
SCON RESET
DIF DAU ON/OFF
DIF ENC ON/OFF
DIF DEC ON/OFF
TBC/SETUP ON/OFF
CPST ENC ON/OFF
DE2/BDEC ON/OFF
DE1 ON/OFF
BENC ON/OFF
SST. 904-3
SST. 904-12
SST. 904-13
SST. 904-14
ADA. 555-7
SST. 904-15
SST. 904-11
SST. 904-10
ADA. 555-8
ADA. 555-3
ADA. 555-9
VPR. CN203
DIF. 205-B18
ADA. 559-4
ADA. 559-3
ADA. 559-2
ADA. 559-1
ADA. 559-5
VPR. 203-6
VPR. 203-5
RB2508
RB2507
RB2506
RB2505
RB2510
RB2509
RB2504
RB2503
RB2500
RB2502
RB2501
RB2515
RB2514
RB2513
RB2512
RB2511
RB2518
RB2517
RB2516
RB2519
RB2520
R2501
R2509
R2503
R2502
R2500
R2505
R2504
R2510
R2506
R2507
R2508
C2500
C2501
C2502
3V
5V
1
2
3
4
5
A
B
C
D
E
F
G
H

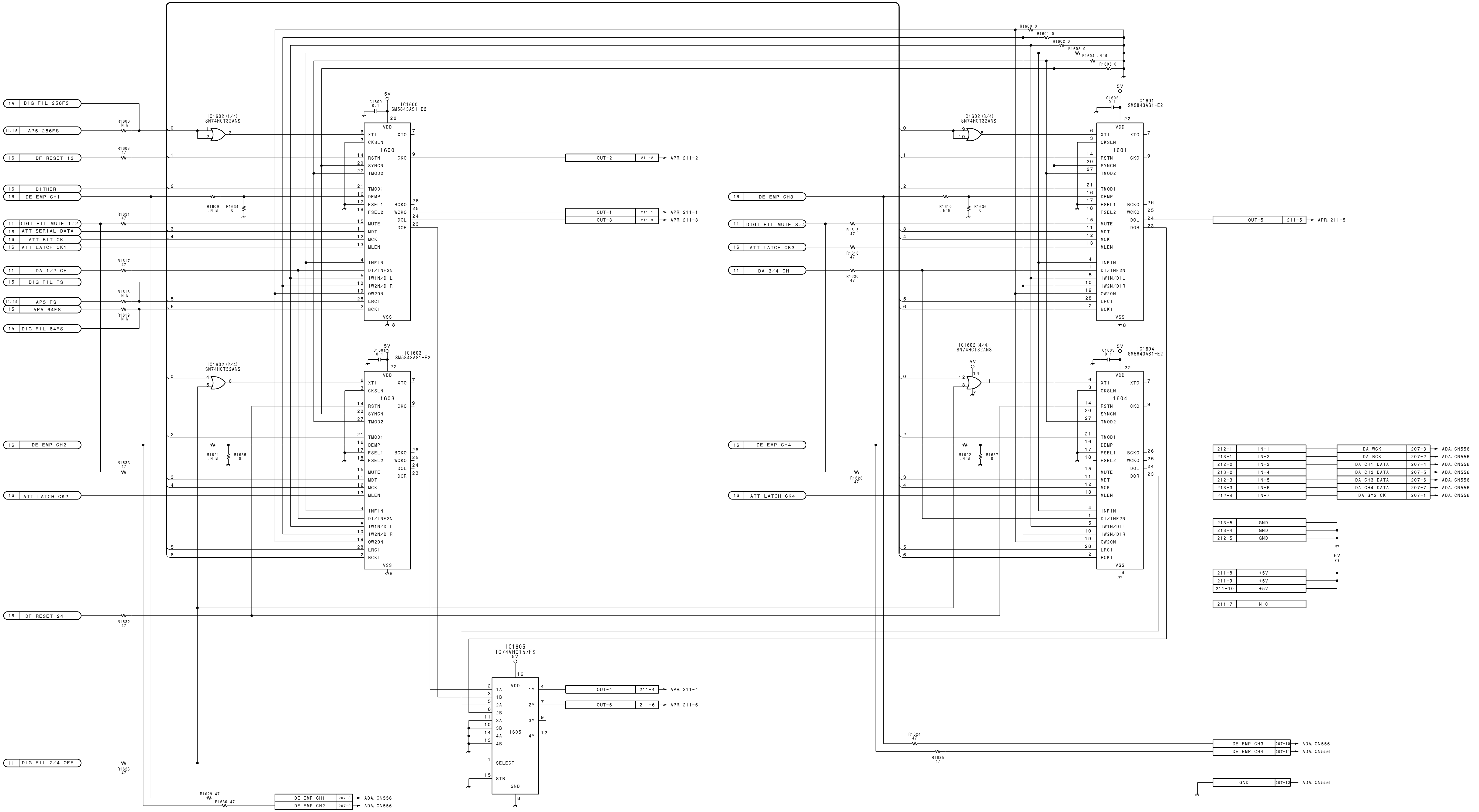
DIGITAL DATA PROCESSOR
(ENCODE/DECODE, ERROR CORRECTION)
REF CK GENERATOR, DATA RATE CONVERTER
REC CURENT CONTROL, REC ENVELOPE DETECTOR

DPR-62 (16/17)

BOARD NO. 1-657-806-11
LOT NO. 409-
B-¥DVW250-DPR62-12-S/M

3-66

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


IC1600
SM5843AS1-E2
IC1601
SM5843AS1-E2
IC1603
SM5843AS1-E2
IC1604
SM5843AS1-E2
IC1602 (1/4)
SN74HCT32ANS
IC1602 (2/4)
SN74HCT32ANS
IC1602 (3/4)
SN74HCT32ANS
IC1602 (4/4)
SN74HCT32ANS
IC1605
TC74VHC157FS
5V
DIG FIL 256FS
AP5 256FS
DF RESET 13
DITHER
DE EMP CH1
DIGI FIL MUTE 1/2
ATT SERIAL DATA
ATT BIT CK
ATT LATCH CK1
DA 1/2 CH
DIG FIL FS
AP5 FS
AP5 64FS
DIG FIL 64FS
DE EMP CH2
ATT LATCH CK2
DF RESET 24
DIG FIL 2/4 OFF
DE EMP CH3
DIGI FIL MUTE 3/4
ATT LATCH CK3
DA 3/4 CH
DE EMP CH4
ATT LATCH CK4
OUT-1
OUT-2
OUT-3
OUT-4
OUT-5
OUT-6
APR. 211-1
APR. 211-2
APR. 211-3
APR. 211-4
APR. 211-5
APR. 211-6
XTI
XTO
CKSLN
RSTN
CKO
SYNCN
TMOD2
TMOD1
DEMP
FSEL1
FSEL2
BCKO
WCKO
DOL
DOR
MUTE
MDT
MCK
MLEN
INFIN
DI/INF2N
IW1N/DIL
IW2N/DIR
OW20N
LRCI
BCKI
VDD
VSS
SELECT
STB
GND
212-1 IN-1 DA WCK 207-3 ADA. CN556
213-1 IN-2 DA BCK 207-2 ADA. CN556
212-2 IN-3 DA CH1 DATA 207-4 ADA. CN556
213-2 IN-4 DA CH2 DATA 207-5 ADA. CN556
212-3 IN-5 DA CH3 DATA 207-6 ADA. CN556
213-3 IN-6 DA CH4 DATA 207-7 ADA. CN556
212-4 IN-7 DA SYS CK 207-1 ADA. CN556
213-5 GND
213-4 GND
212-5 GND
211-8 +5V
211-9 +5V
211-10 +5V
211-7 N.C
DE EMP CH1 207-8 ADA. CN556
DE EMP CH2 207-9 ADA. CN556
DE EMP CH3 207-10 ADA. CN556
DE EMP CH4 207-11 ADA. CN556
GND 207-12 ADA. CN556

DIGITAL DATA PROCESSOR
(ENCODE/DECODE, ERROR CORRECTION)
REF CK GENERATOR, DATA RATE CONVERTER
REC CURENT CONTROL, REC ENVELOPE DETECTOR

DPR-62 (17/17)

BOARD NO. 1-657-806-11
LOT NO. 409-
B-¥DVW250-DPR62-12-S/M

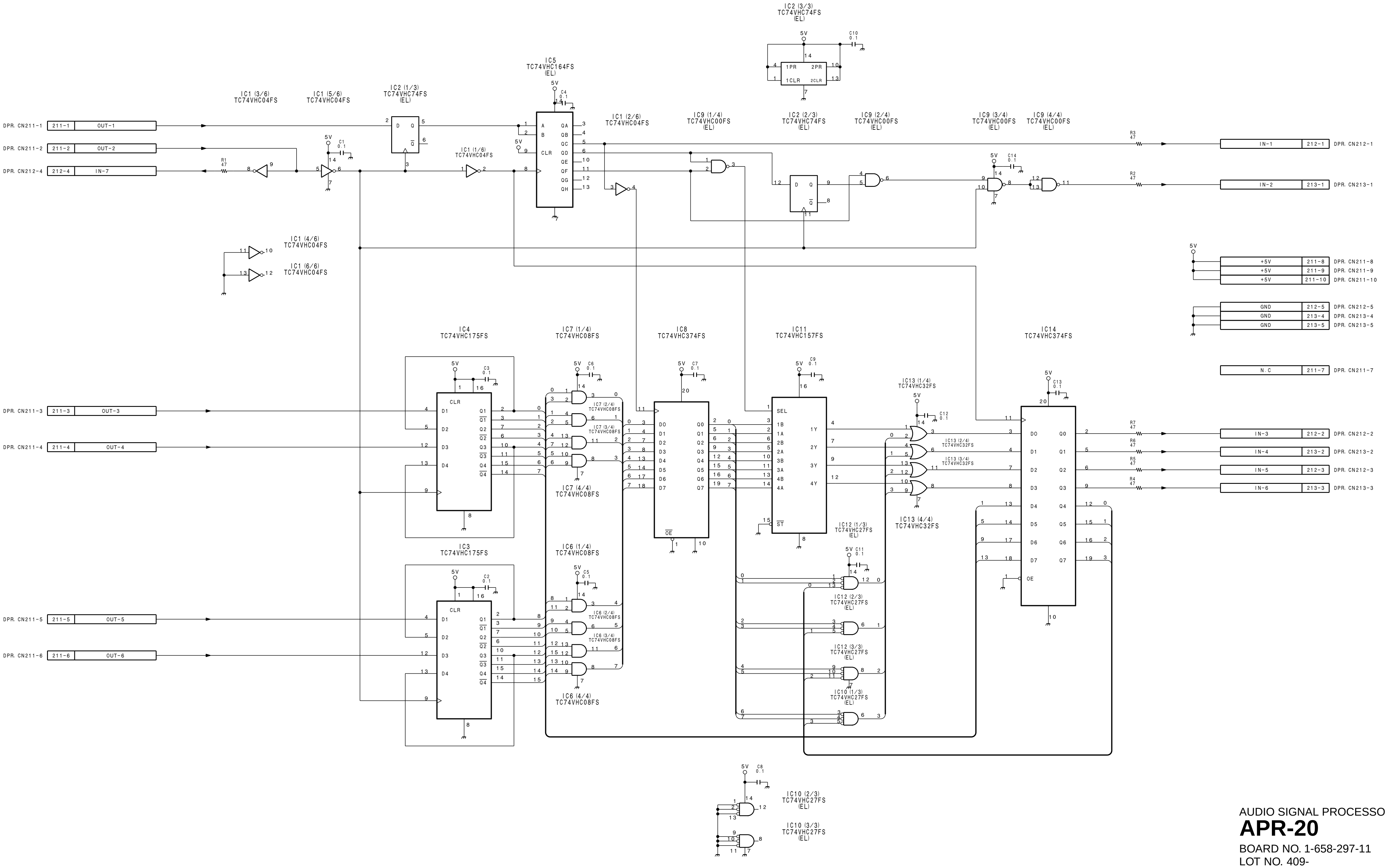
A B C D E F G H

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

APR-20 (1-658-297-11)

CN211	∗B2
CN212	∗A6
CN213	∗A6
IC1	C2
IC2	C3
IC3	A2
IC4	B2
IC5	C4
IC6	A3
IC7	B3
IC8	B4
IC9	C5
IC10	A5
IC11	B5
IC12	A4
IC13	B6
IC14	A6

∗ : Soldering Side



IC2 (3/3) TC74VHC74FS (EL)
IC5 TC74VHC164FS (EL)
IC1 (3/6) TC74VHC04FS
IC1 (5/6) TC74VHC04FS
IC2 (1/3) TC74VHC74FS (EL)
IC1 (1/6) TC74VHC04FS
IC1 (2/6) TC74VHC04FS
IC9 (1/4) TC74VHC00FS (EL)
IC2 (2/3) TC74VHC74FS (EL)
IC9 (2/4) TC74VHC00FS (EL)
IC9 (3/4) TC74VHC00FS (EL)
IC9 (4/4) TC74VHC00FS (EL)
IC1 (4/6) TC74VHC04FS
IC1 (6/6) TC74VHC04FS
IC4 TC74VHC175FS
IC7 (1/4) TC74VHC08FS
IC7 (2/4) TC74VHC08FS
IC7 (3/4) TC74VHC08FS
IC7 (4/4) TC74VHC08FS
IC8 TC74VHC374FS
IC11 TC74VHC157FS
IC13 (1/4) TC74VHC32FS
IC13 (2/4) TC74VHC32FS
IC13 (3/4) TC74VHC32FS
IC13 (4/4) TC74VHC32FS
IC14 TC74VHC374FS
IC12 (1/3) TC74VHC27FS (EL)
IC12 (2/3) TC74VHC27FS (EL)
IC12 (3/3) TC74VHC27FS (EL)
IC10 (1/3) TC74VHC27FS (EL)
IC10 (2/3) TC74VHC27FS (EL)
IC10 (3/3) TC74VHC27FS (EL)
IC3 TC74VHC175FS
IC6 (1/4) TC74VHC08FS
IC6 (2/4) TC74VHC08FS
IC6 (3/4) TC74VHC08FS
IC6 (4/4) TC74VHC08FS
DPR. CN211-1 211-1 OUT-1
DPR. CN211-2 211-2 OUT-2
DPR. CN212-4 212-4 IN-7
DPR. CN211-3 211-3 OUT-3
DPR. CN211-4 211-4 OUT-4
DPR. CN211-5 211-5 OUT-5
DPR. CN211-6 211-6 OUT-6
IN-1 212-1 DPR. CN212-1
IN-2 213-1 DPR. CN213-1
+5V 211-8 DPR. CN211-8
+5V 211-9 DPR. CN211-9
+5V 211-10 DPR. CN211-10
GND 212-5 DPR. CN212-5
GND 213-4 DPR. CN213-4
GND 213-5 DPR. CN213-5
N.C 211-7 DPR. CN211-7
IN-3 212-2 DPR. CN212-2
IN-4 213-2 DPR. CN213-2
IN-5 212-3 DPR. CN212-3
IN-6 213-3 DPR. CN213-3
5V

AUDIO SIGNAL PROCESSOR (LIMITTER)

APR-20

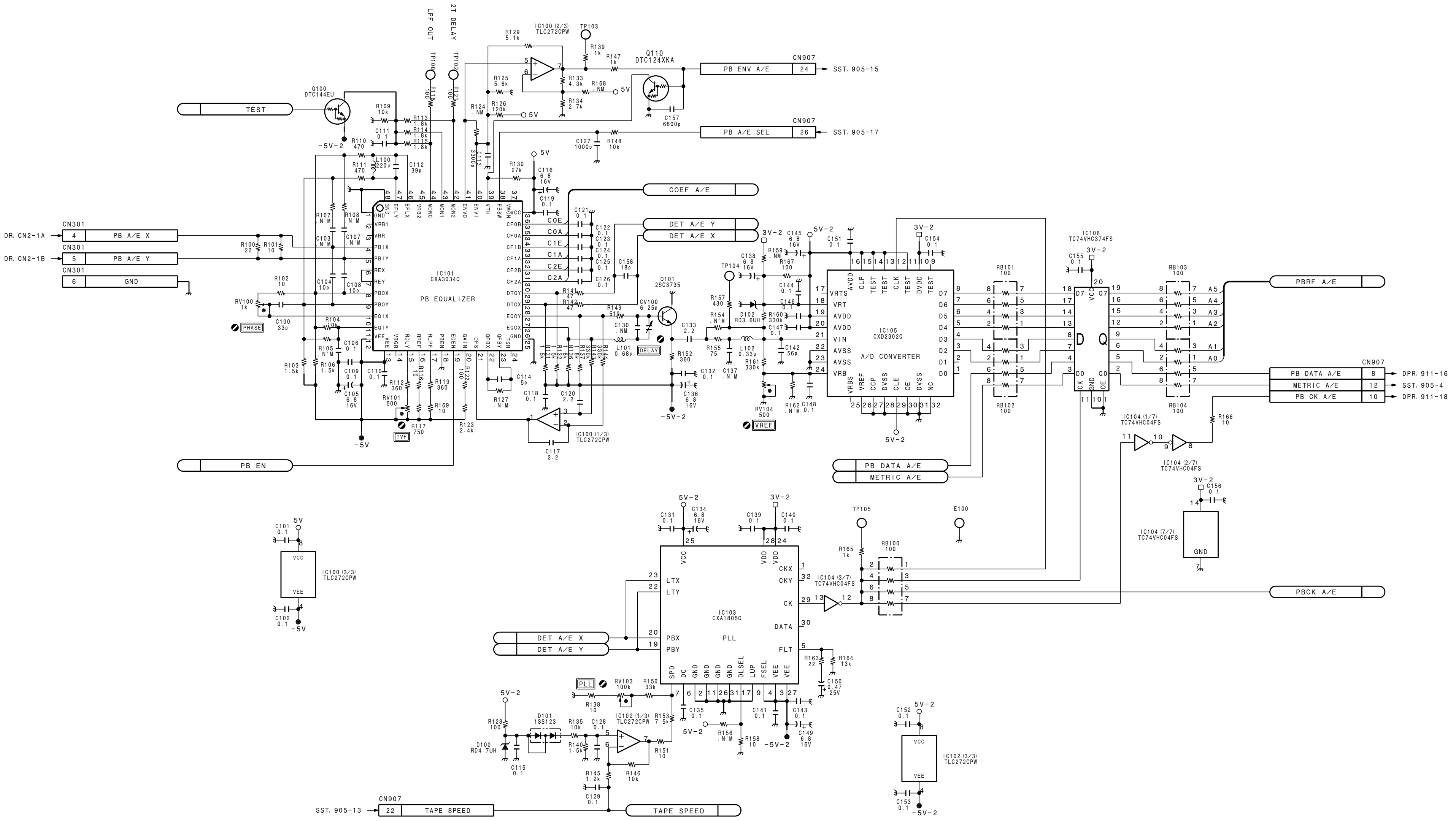
BOARD NO. 1-658-297-11
LOT NO. 409-
B-¥DVW250-APR20-11

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

EQ-54 (1-657-799-11)

CN301	A1	L100	∗A2	RB304	D4
CN302	E1	L101	∗A2	RB400	E3
CN303	D1	L102	∗A3	RB401	F3
CN304	G1	L200	∗C2	RB402	E3
CN906	F4	L201	∗B2	RB403	F4
CN907	B4	L202	∗C3	RB404	E4
		L300	∗D2	RB530	C4
CT800	G2	L301	∗D2		
		L302	∗D3	RV100	∗A2
CV100	∗A2	L400	∗E2	RV101	∗A1
CV200	∗B2	L401	∗E2	RV103	∗B3
CV300	∗D2	L402	∗F3	RV104	∗A3
CV400	∗E2	L800	G4	RV200	∗B2
CV800	G2	L801	E4	RV201	∗B1
		L802	G2	RV203	∗B3
D100	∗B3	L900	D4	RV204	∗C3
D101	B3	L901	C4	RV300	∗D2
D102	∗A3	L902	A4	RV301	∗D1
D200	∗B3			RV303	∗D3
D201	B3	Q100	∗B2	RV304	∗C3
D202	∗C3	Q101	∗A2	RV400	∗E2
D300	∗E3	Q110	B2	RV401	∗E1
D301	D3	Q200	∗C2	RV403	∗E3
D302	∗C3	Q201	∗B3	RV404	∗E3
D400	∗E3	Q210	C2	RV800	∗G2
D401	E3	Q300	∗E2	RV801	∗G1
D402	∗E3	Q301	∗D2	RV802	∗G1
D530	∗B2	Q310	D2	RV803	∗G1
D630	∗E2	Q400	∗F2		
D800	∗G1	Q401	∗E3	S700	C1
D801	G1	Q410	F2		
		Q500	B1	TP100	∗B1
E100	D3	Q501	B1	TP102	∗B2
E200	∗D4	Q502	∗B1	TP103	∗B2
E300	A3	Q503	∗B1	TP104	∗A3
E400	∗D4	Q504	∗C2	TP105	∗A3
E800	∗F3	Q505	∗C2	TP200	∗C1
		Q506	C2	TP202	∗C2
IC100	∗B2	Q507	A2	TP203	∗C2
IC101	A2	Q508	∗B4	TP204	∗C3
IC102	B3	Q600	D1	TP205	∗C3
IC103	B3	Q601	D1	TP300	∗D1
IC104	∗B4	Q602	∗D1	TP302	∗D2
IC105	A3	Q603	∗D1	TP303	∗D2
IC106	∗A4	Q604	∗F2	TP304	∗D3
IC200	∗C2	Q605	∗F2	TP305	∗D3
IC201	C2	Q606	F2	TP400	∗F1
IC203	B3	Q607	D2	TP402	∗F2
IC205	C3	Q608	∗D4	TP403	∗F2
IC206	∗C4	Q700	∗F1	TP404	∗F3
IC300	∗D2	Q701	∗F1	TP405	∗E3
IC301	D2	Q702	∗F1	TP800	∗F3
IC302	E3	Q703	F1	TP801	∗G1
IC303	D3	Q704	E1	TP802	∗F3
IC304	∗E4	Q800	G3	TP803	∗G2
IC305	D3	Q801	G3	TP804	∗G1
IC306	∗D4	Q802	G2	TP805	∗G1
IC400	∗F2	Q803	G2	TP806	∗G2
IC401	E2	Q804	∗G2		
IC403	E3	Q805	G2		
IC405	F3	Q806	G3		
IC406	∗F4	Q807	∗G2		
IC500	B4	Q808	∗G2		
IC501	B2	Q809	G2		
IC600	E4	Q810	G2		
IC601	D2	Q811	G1		
IC700	G4	Q812	G1		
IC701	G4				
IC702	G4	RB100	A3		
IC705	G4	RB102	A3		
IC706	G3	RB103	A4		
IC708	G3	RB104	A4		
IC800	G1	RB200	C3		
IC801	G2	RB201	C3		
IC802	G1	RB202	C3		
IC803	∗G2	RB203	C4		
IC804	F3	RB204	C4		
IC805	F2	RB300	D3		
IC806	∗F2	RB301	D3		
		RB302	C3		
LV800	G2	RB303	D4		

∗ : Soldering Side



LPF OUT
2T DELAY
TEST
PB ENV A/E
PB A/E SEL
CN907
SST. 905-15
SST. 905-17
COEF A/E
DET A/E Y
DET A/E X
CN301
DR. CN2-1A
DR. CN2-1B
PB A/E X
PB A/E Y
GND
IC101 CXA3034Q PB EQUALIZER
IC105 CXD2302Q A/D CONVERTER
IC106 TC74VHC374FS
IC103 CXA1805Q PLL
IC100 TLC272CPW
IC102 TLC272CPW
IC104 TC74VHC04FS
Q100 DTC144EU
Q101 2SC3735
Q110 DTC124XKA
PHASE
DELAY
VREF
TVF
PLL
PBRF A/E
PB DATA A/E
METRIC A/E
PB CK A/E
PBCK A/E
DPR. 911-16
SST. 905-4
DPR. 911-18
PB EN
PB DATA A/E
METRIC A/E
DET A/E X
DET A/E Y
TAPE SPEED
SST. 905-13
5V
-5V
3V-2
5V-2
-5V-2

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A
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G
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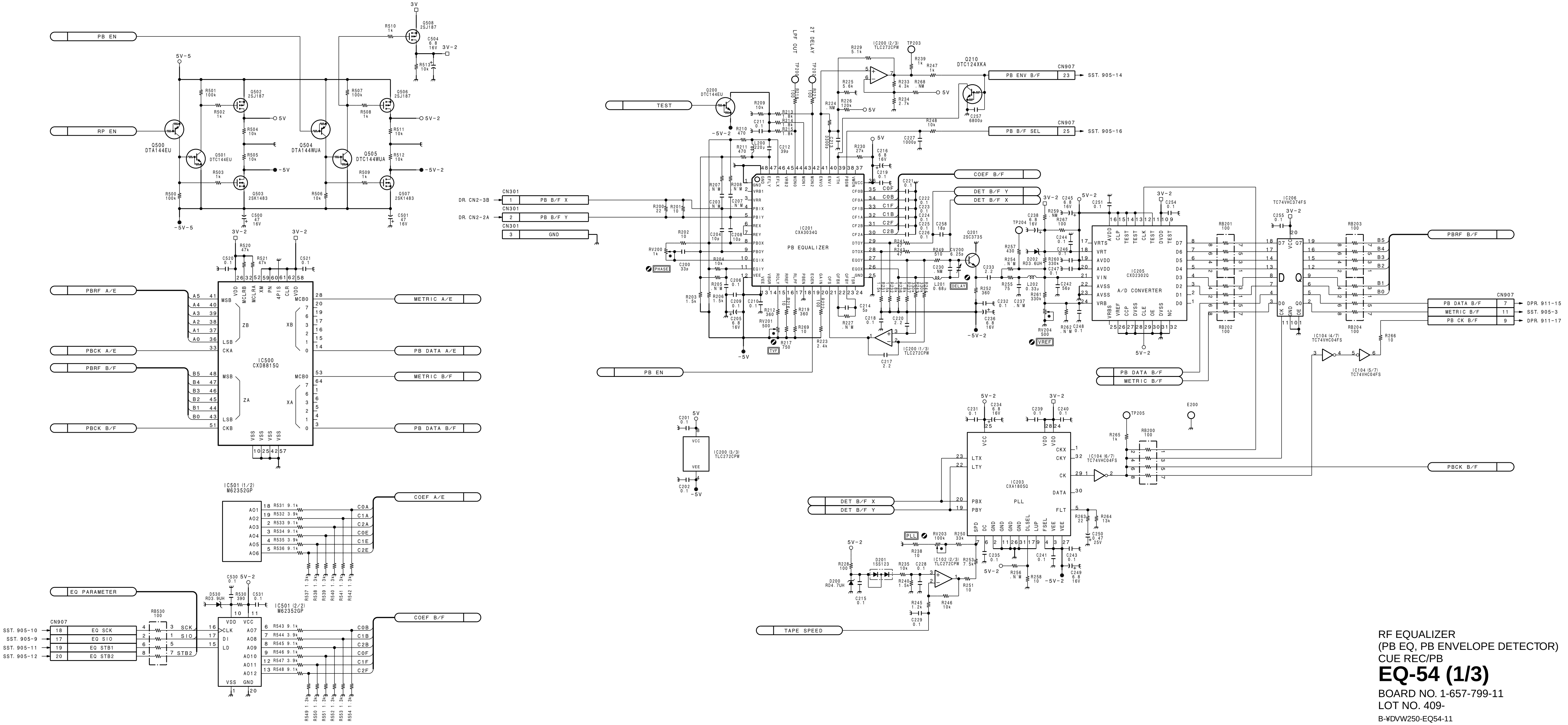

PB EN
RP EN
TEST
PBRF A/E
PBCK A/E
PBRF B/F
PBCK B/F
METRIC A/E
PB DATA A/E
METRIC B/F
PB DATA B/F
COEF A/E
COEF B/F
EQ PARAMETER
EQ SCK
EQ SIO
EQ STB1
EQ STB2
CN907
SST. 905-10
SST. 905-9
SST. 905-11
SST. 905-12
IC500 CXD8815Q
IC501 (1/2) M62352GP
IC501 (2/2) M62352GP
Q500 DTA144EU
Q501 DTC144EU
Q502 2SJ187
Q503 2SK1483
Q504 DTA144WUA
Q505 DTC144WUA
Q506 2SJ187
Q507 2SK1483
Q508 2SJ187
CN301
DR. CN2-3B
DR. CN2-2A
PB B/F X
PB B/F Y
GND
Q200 DTC144EU
IC201 CXA3030Q PB EQUALIZER
IC200 (1/3) TLC272CPW
IC200 (2/3) TLC272CPW
IC200 (3/3) TLC272CPW
LPF OUT
2T DELAY
Q210 DTC124XKA
PB ENV B/F
PB B/F SEL
SST. 905-14
SST. 905-16
COEF B/F
DET B/F Y
DET B/F X
Q201 2SC3735
IC205 CXD2302Q A/D CONVERTER
IC206 TC74VHC374FS
RB200 100
RB201 100
RB202 100
RB203 100
RB204 100
PBRF B/F
PB DATA B/F
METRIC B/F
PB CK B/F
DPR. 911-15
SST. 905-3
DPR. 911-17
IC104 (4/7) TC74VHC04FS
IC104 (5/7) TC74VHC04FS
IC104 (6/7) TC74VHC04FS
IC203 CXA1805Q PLL
IC102 (2/3) TLC272CPW
PBCK B/F
TAPE SPEED
PHASE
TVF
DELAY
VREF
PLL
TP203
TP204
TP205
E200
D200 RD4.7UH
D201 1SS123
D202 RD3.6UH
D530 RD3.9UH
RV200
RV201
RV203
RV204
CV200
3V
3V-2
5V
5V-2
5V-5
-5V
-5V-2
-5V-5

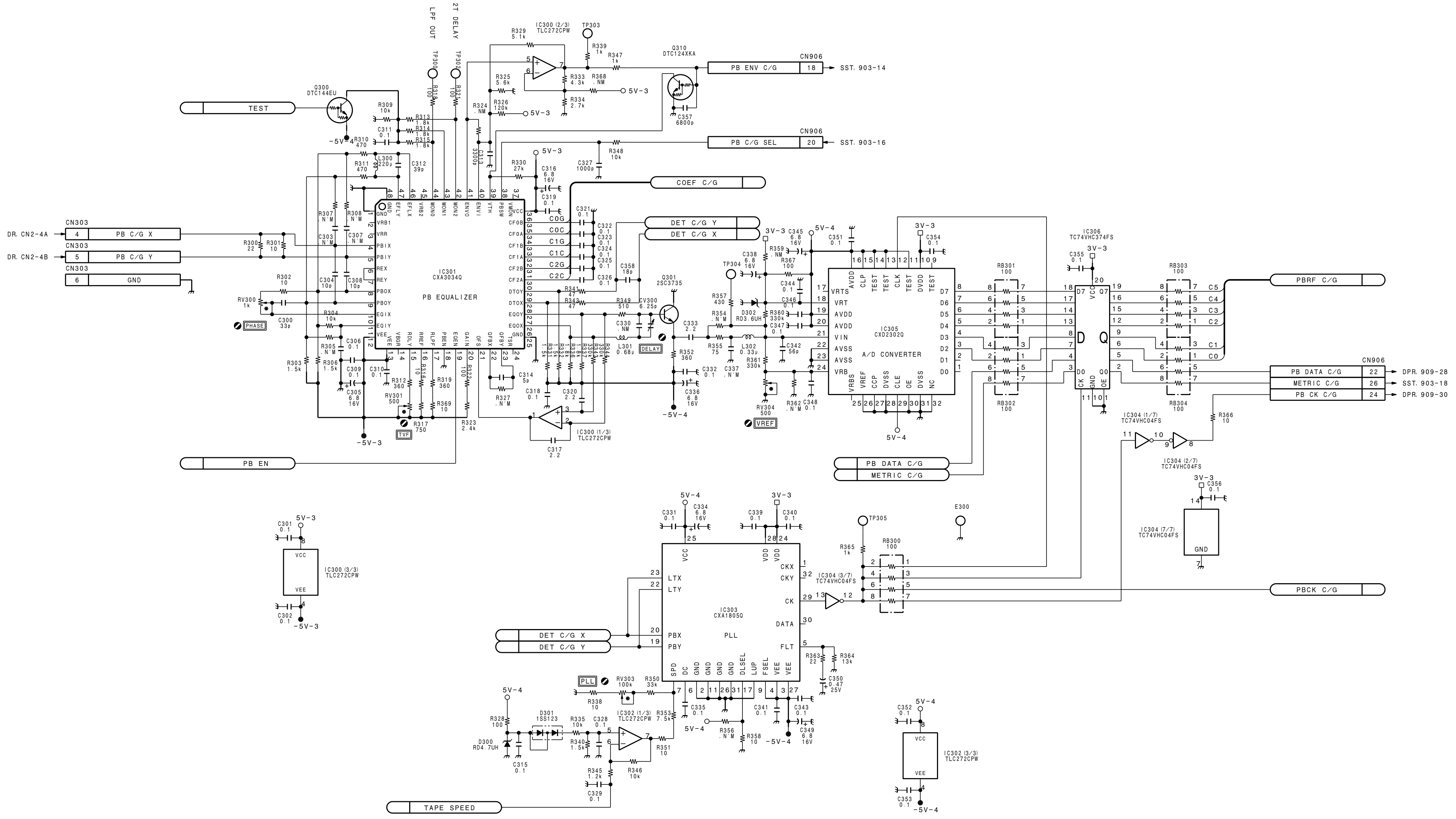
RF EQUALIZER
(PB EQ, PB ENVELOPE DETECTOR)
CUE REC/PB

EQ-54 (1/3)

BOARD NO. 1-657-799-11
LOT NO. 409-
B-¥DVW250-EQ54-11

EQ-54 (2/3)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

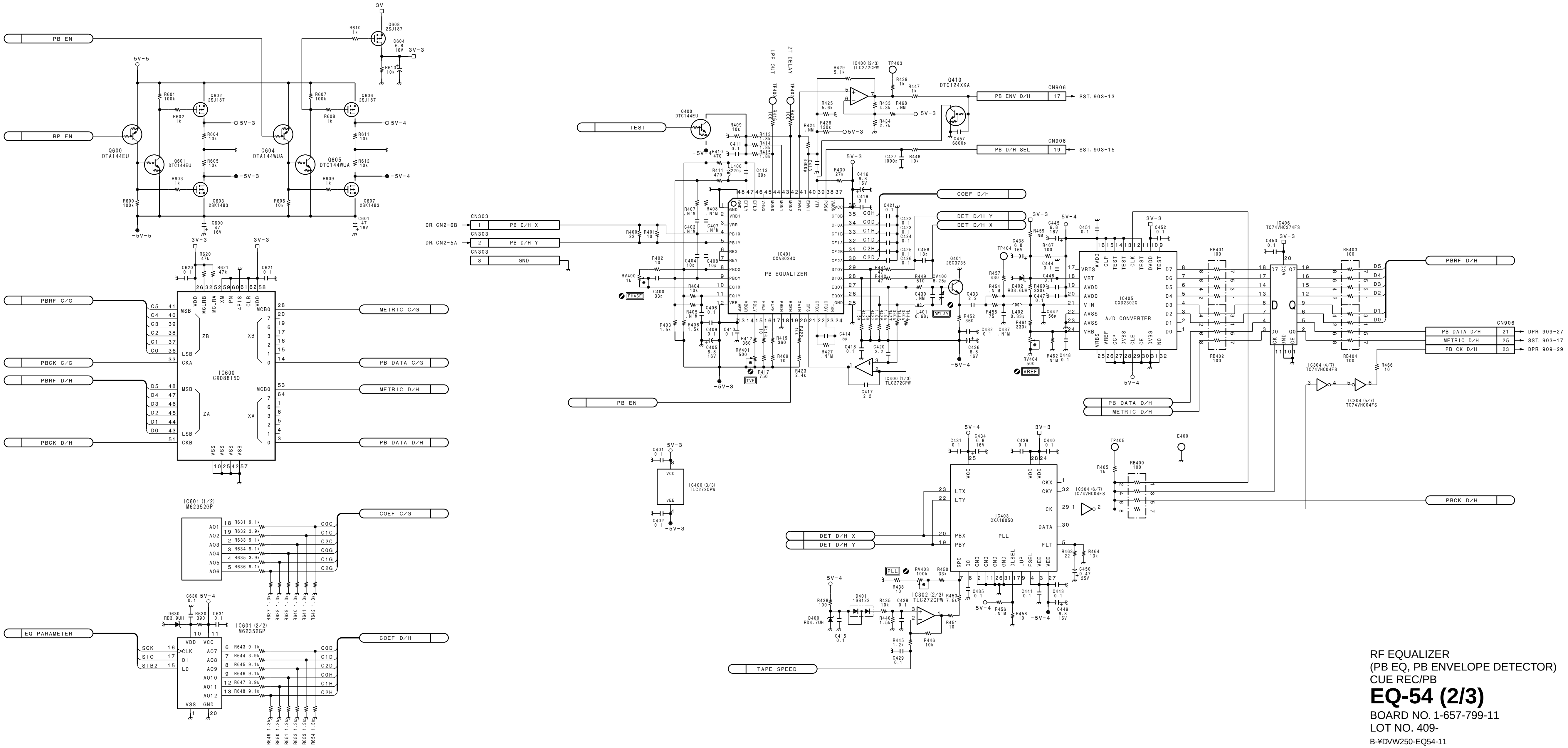


1
2
3
4
5
TEST
PB EN
TAPE SPEED
COEF C/G
DET C/G Y
DET C/G X
PB ENV C/G
PB C/G SEL
CN906
SST. 903-14
SST. 903-16
SST. 903-18
DPR. 909-28
DPR. 909-30
DR. CN2-4A
DR. CN2-4B
CN303
PB C/G X
PB C/G Y
GND
IC301
CXA3034Q
PB EQUALIZER
IC305
CXD2302Q
A/D CONVERTER
IC306
TC74VHC374FS
IC303
CXA1805Q
PLL
IC300 (2/3) TLC272CPW
IC300 (1/3) TLC272CPW
IC300 (3/3) TLC272CPW
IC302 (1/3) TLC272CPW
IC302 (3/3) TLC272CPW
IC304 (1/7) TC74VHC04FS
IC304 (2/7) TC74VHC04FS
IC304 (3/7) TC74VHC04FS
IC304 (7/7) TC74VHC04FS
Q300 DTC144EU
Q301 2SC3735
Q310 DTC124XKA
LPF OUT
2T DELAY
TP300
TP301
TP303
TP304
TP305
E300
PHASE
TVF
DELAY
VREF
PLL
PBRF C/G
PB DATA C/G
METRIC C/G
PB CK C/G
PBCK C/G
5V-3
-5V-3
5V-4
-5V-4
3V-3
RB301 100
RB302 100
RB303 100
RB304 100
RB300 100

3-72

A
B
C
D
E
F
G
H

EQ-54 (2/3)


PB EN
RP EN
5V-5
-5V-5
Q600 DTA144EU
Q601 DTC144EU
Q602 2SJ187
Q603 2SK1483
Q604 DTA144WUA
Q605 DTC144WUA
Q606 2SJ187
Q607 2SK1483
Q608 2SJ187
3V
3V-3
5V-3
-5V-3
5V-4
-5V-4
PBRF C/G
PBCK C/G
PBRF D/H
PBCK D/H
IC600 CXD8815Q
METRIC C/G
PB DATA C/G
METRIC D/H
PB DATA D/H
IC601 (1/2) M62352GP
COEF C/G
EQ PARAMETER
IC601 (2/2) M62352GP
COEF D/H
TEST
Q400 DTC144EU
DR. CN2-6B
DR. CN2-5A
CN303
PB D/H X
PB D/H Y
GND
PHASE
IC401 CXA3034Q
PB EQUALIZER
LPF OUT
2T DELAY
TP400
TP401
IC400 (2/3) TLC272CPW
TP403
Q410 DTC124XKA
CN906
PB ENV D/H
SST. 903-13
PB D/H SEL
SST. 903-15
DET D/H Y
DET D/H X
Q401 2SC5735
DELAY
TXF
IC400 (1/3) TLC272CPW
TP404
IC405 CXD2302Q
A/D CONVERTER
VREF
IC406 TC74VHC374FS
PBRF D/H
PB DATA D/H
METRIC D/H
PB CK D/H
DPR. 909-27
SST. 903-17
DPR. 909-29
IC304 (4/7) TC74VHC04FS
IC304 (5/7) TC74VHC04FS
IC400 (3/3) TLC272CPW
IC403 CXA1805Q
PLL
TP405
E400
RB400
IC304 (6/7) TC74VHC04FS
PBCK D/H
IC302 (2/3) TLC272CPW
D400 RD4.7UH
D401 1SS123
TAPE SPEED

RF EQUALIZER
(PB EQ, PB ENVELOPE DETECTOR)
CUE REC/PB
EQ-54 (2/3)
BOARD NO. 1-657-799-11
LOT NO. 409-
B-¥DVW250-EQ54-11

3-73

EQ-54 (3/3)

EQ-54 (3/3)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

1

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3

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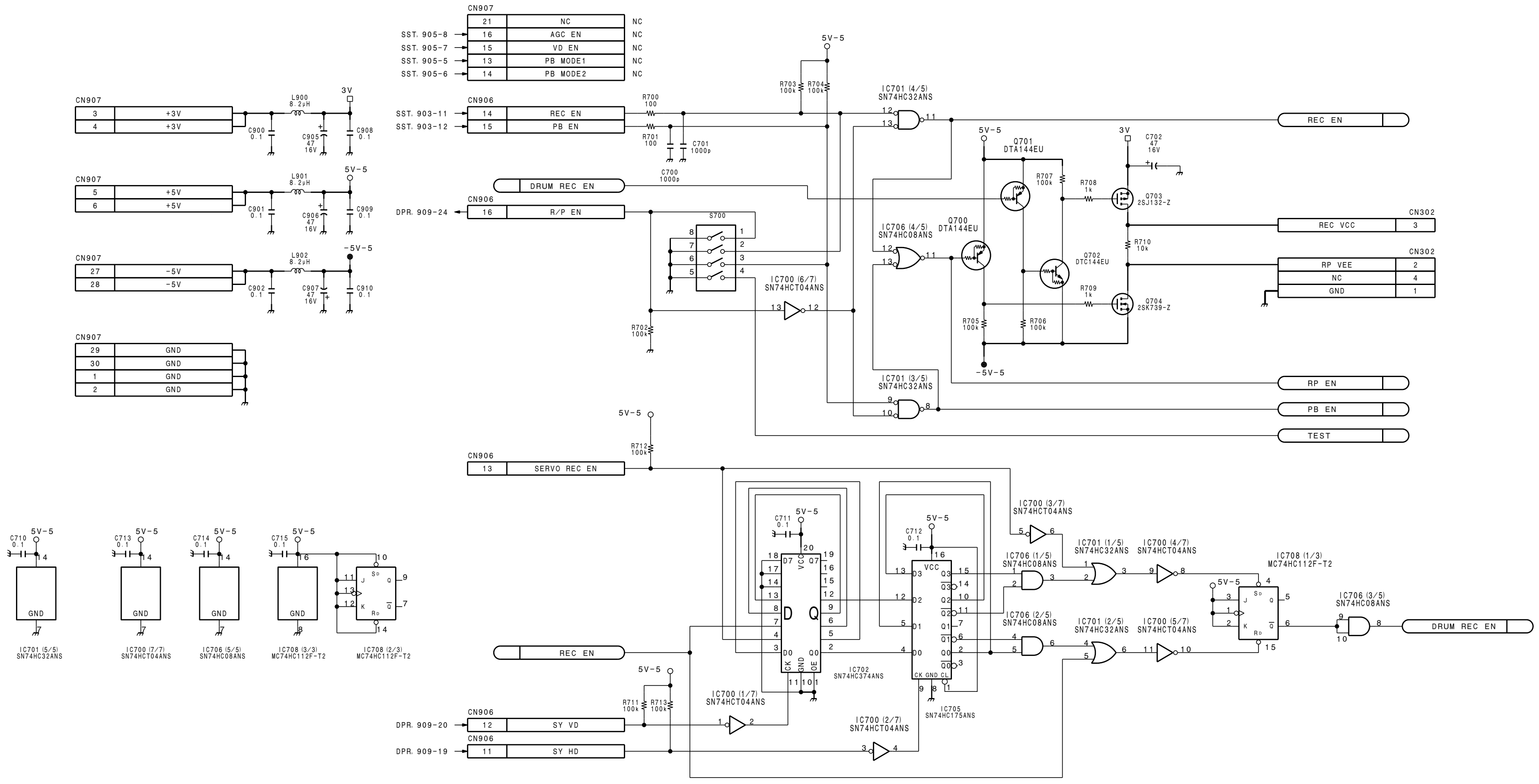
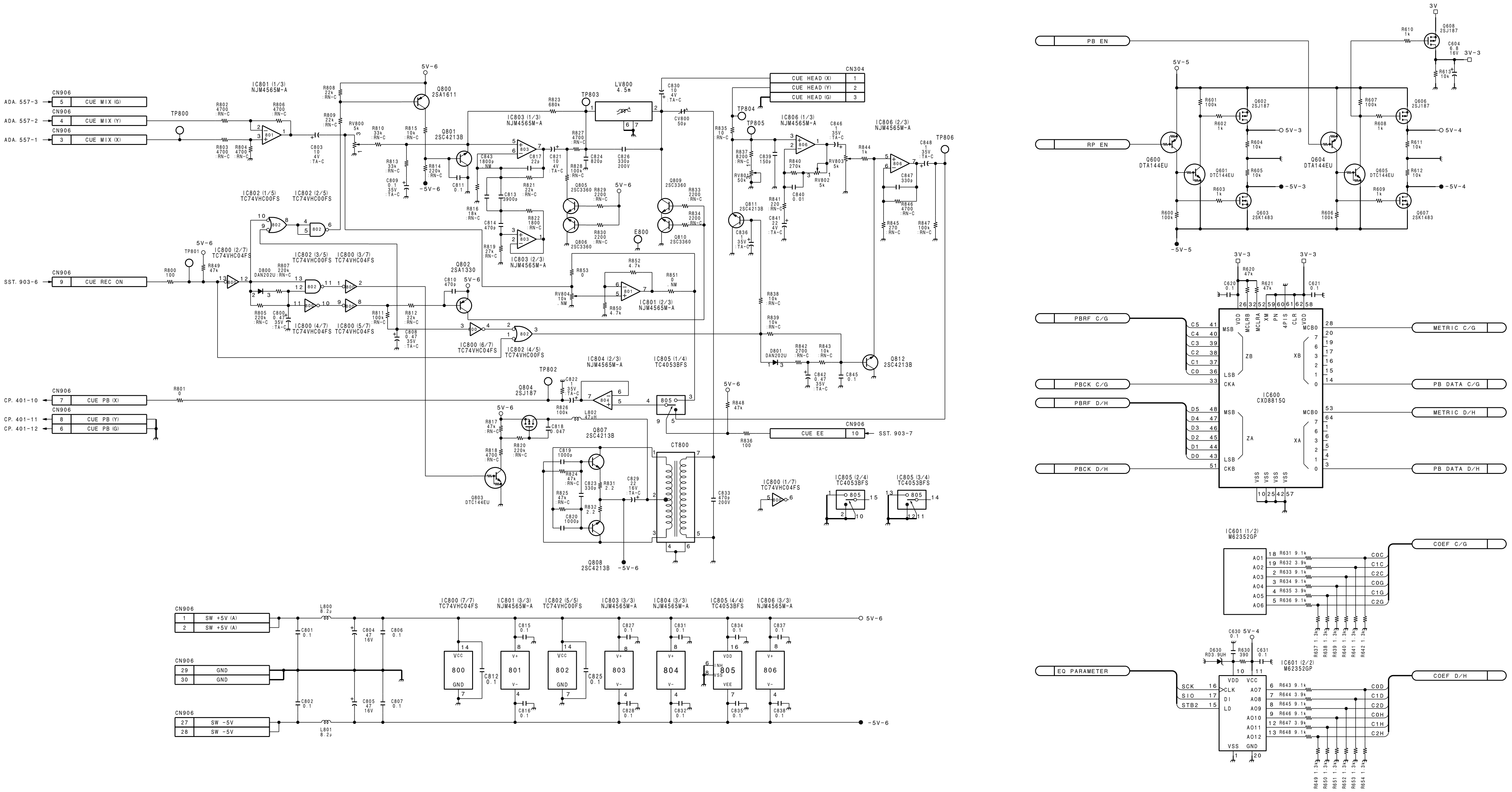
5


CN907
21 NC
16 AGC EN
15 VD EN
13 PB MODE1
14 PB MODE2
SST. 905-8
SST. 905-7
SST. 905-5
SST. 905-6
NC
CN906
14 REC EN
15 PB EN
SST. 903-11
SST. 903-12
CN907
3 +3V
4 +3V
L900 8.2uH
C900 0.1
C905 47 16V
C908 0.1
3V
CN907
5 +5V
6 +5V
L901 8.2uH
C901 0.1
C906 47 16V
C909 0.1
5V-5
CN907
27 -5V
28 -5V
L902 8.2uH
C902 0.1
C907 47 16V
C910 0.1
-5V-5
CN907
29 GND
30 GND
1 GND
2 GND
DRUM REC EN
CN906
16 R/P EN
DPR. 909-24
R700 100
R701 100
C701 1000p
C700 1000p
S700
R702 100k
R703 100k
R704 100k
5V-5
IC701 (4/5) SN74HC32ANS
REC EN
IC706 (4/5) SN74HC08ANS
Q700 DTA144EU
Q701 DTA144EU
Q702 DTC144EU
Q703 2SJ132-Z
Q704 2SK739-Z
R705 100k
R706 100k
R707 100k
R708 1k
R709 1k
R710 10k
C702 47 16V
3V
-5V-5
CN302
REC VCC 3
RP VEE 2
NC 4
GND 1
IC700 (6/7) SN74HCT04ANS
IC701 (3/5) SN74HC32ANS
RP EN
PB EN
TEST
5V-5
R712 100k
CN906
13 SERVO REC EN
C710 0.1
C713 0.1
C714 0.1
C715 0.1
GND
IC701 (5/5) SN74HC32ANS
IC700 (7/7) SN74HCT04ANS
IC706 (5/5) SN74HC08ANS
IC708 (3/3) MC74HC112F-T2
IC708 (2/3) MC74HC112F-T2
C711 0.1
C712 0.1
IC702 SN74HC374ANS
IC705 SN74HC175ANS
IC700 (3/7) SN74HCT04ANS
IC706 (1/5) SN74HC08ANS
IC706 (2/5) SN74HC08ANS
IC701 (1/5) SN74HC32ANS
IC701 (2/5) SN74HC32ANS
IC700 (4/7) SN74HCT04ANS
IC700 (5/7) SN74HCT04ANS
IC708 (1/3) MC74HC112F-T2
IC706 (3/5) SN74HC08ANS
DRUM REC EN
REC EN
R711 100k
R713 100k
IC700 (1/7) SN74HCT04ANS
IC700 (2/7) SN74HCT04ANS
CN906
12 SY VD
11 SY HD
DPR. 909-20
DPR. 909-19

A B C D E F G H

3-74


CN906
ADA. 557-3
ADA. 557-2
ADA. 557-1
CUE MIX (G)
CUE MIX (Y)
CUE MIX (X)
TP800
IC801 (1/3) NJM4565M-A
Q800 2SA1611
Q801 2SC4213B
IC803 (1/3) NJM4565M-A
TP803
LV800 4.5m
CN304
CUE HEAD (X)
CUE HEAD (Y)
CUE HEAD (G)
TP804
TP805
IC806 (1/3) NJM4565M-A
IC806 (2/3) NJM4565M-A
TP806
SST. 903-6
CUE REC ON
TP801
Q802 2SA1330
IC801 (2/3) NJM4565M-A
E800
Q809 2SC3360
Q810 2SC3360
Q812 2SC4213B
CP. 401-10
CP. 401-11
CP. 401-12
CUE PB (X)
CUE PB (Y)
CUE PB (G)
TP802
Q804 2SJ187
IC804 (2/3) NJM4565M-A
IC805 (1/4) TC4053BFS
CUE EE
SST. 903-7
Q807 2SC4213B
CT800
Q803 DTC144EU
Q808 2SC4213B
IC800 (1/7) TC74VHC04FS
IC805 (2/4) TC4053BFS
IC805 (3/4) TC4053BFS
SW +5V (A)
GND
SW -5V
L800 8.2μ
L801 8.2μ
5V-6
-5V-6
PB EN
RP EN
Q600 DTA144EU
Q601 DTC144EU
Q602 2SJ187
Q603 2SK1483
Q604 DTA144EU
Q605 DTC144EU
Q606 2SJ187
Q607 2SK1483
Q608 2SJ187
5V-5
-5V-5
5V-3
-5V-3
5V-4
-5V-4
3V
3V-3
PBRF C/G
PBCK C/G
PBRF D/H
PBCK D/H
IC600 CXD8815Q
METRIC C/G
PB DATA C/G
METRIC D/H
PB DATA D/H
IC601 (1/2) M62352GP
COEF C/G
EQ PARAMETER
IC601 (2/2) M62352GP
COEF D/H

RF EQUALIZER
(PB EQ, PB ENVELOPE DETECTOR)
CUE REC/PB

EQ-54 (3/3)

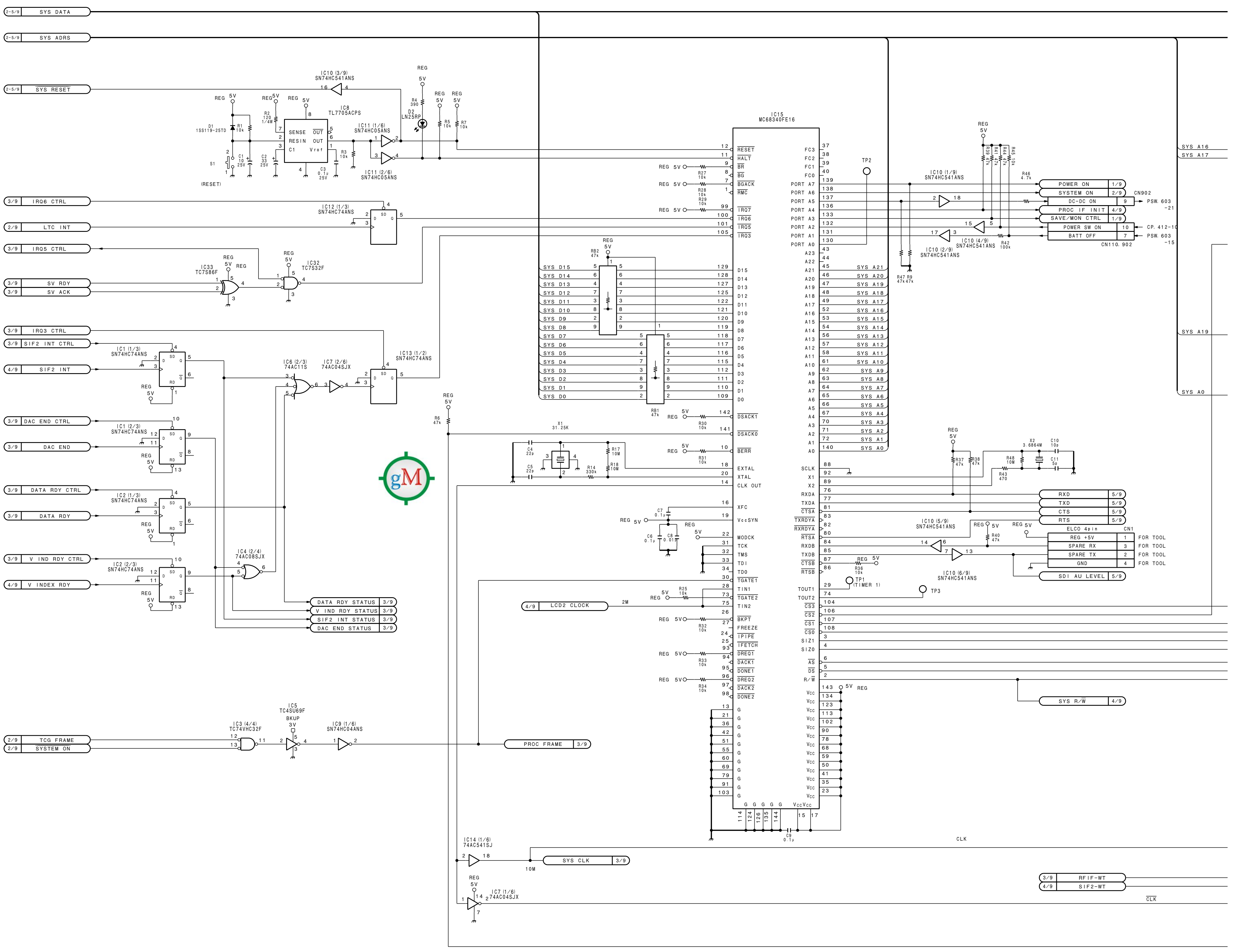
BOARD NO. 1-657-799-11
LOT NO. 409-
B-¥DVW250-EQ54-11

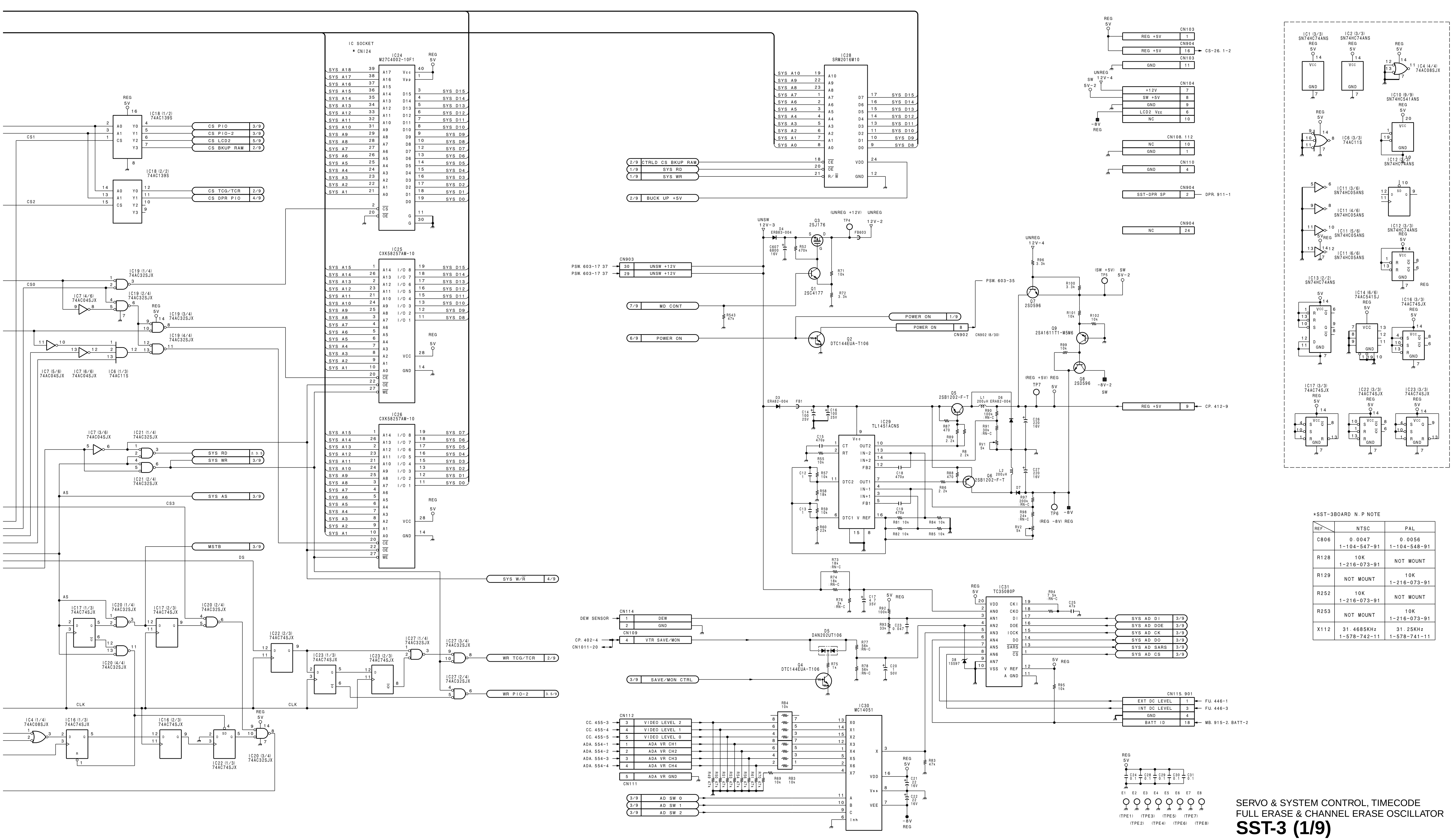
DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

SST-3 (1-657-804-11)

BT111	∗E1
CNI24	C2
CNI413	E8
CN1	B5
CN101	J3
CN102	∗G10
CN103	A3
CN104	A2
CN105	J8
CN106	J4
CN107	∗F10
CN108	J1
CN109	J7
CN110	J8
CN111	A1
CN112	J2
CN113	J3
CN114	∗B10
CN115	J1
CN501	D6
CN901	J10
CN902	G10
CN903	D10
CN904	C10
CN905	A10
CT941	A8
CT961	H8
CV111	D4
D1	A5
D2	A5
D3	C7
D4	C7
D5	∗A1
D6	C8
D7	C8
D111	E5
D112	E1
D113	E4
D114	D1
D115	E3
D301	E1
D302	D1
D351	∗J3
D352	∗J3
D353	∗H3
D354	∗J3
D355	∗J3
D356	∗J3
D357	∗J3
D358	∗J3
D401	C6
D402	C6
D403	D6
D404	C6
D405	B6
D406	B6
D407	C6
D408	B6
D409	A6
D501	∗A6
D502	∗J6
D505	G5
D506	G5
D507	G5
D508	G5
D601	∗A6
D602	F6
D603	F6
D604	∗F10
D605	∗J6
D606	B6
D607	F7
D608	A9
D609	∗H6
D610	∗B7
D611	∗J6
D612	B6
D613	H10
D801	∗J9
D802	∗J9
D803	J9
D804	∗J9
D941	∗A7
D961	∗H8
D962	H8
E1	B2
E2	E2
E3	H2
E4	B5
E5	F5
E6	H5
E7	B6
E8	G6
E801	J10
E901	A9
FB1	∗C7
FB601	∗A6
FB602	G6
FB603	H10
IC1	∗D3
IC2	∗D3
IC3	F4
IC4	G2
IC5	H4
IC6	∗F3
IC7	C1
IC8	A5
IC9	∗G4
IC10	C5
IC11	A5
IC12	F3
IC13	∗G3
IC14	F3
IC15	C4
IC16	F4
IC17	F3
IC18	D3
IC19	C3
IC20	G3
IC21	C1
IC22	H3
IC23	H4
IC24	C2
IC25	B3
IC26	B2
IC27	G4
IC28	C3
IC29	B7
IC30	B1
IC31	B1
IC32	A3
IC33	A4
IC112	E4
IC113	D5
IC114	D4
IC115	E5
IC116	F4
IC117	E4
IC118	E3
IC119	F4
IC120	G5
IC121	G4
IC151	A4
IC153	A3
IC154	A4
IC155	A3
IC156	A3
IC158	E1
IC160	G3
IC164	F5
IC165	E2
IC167	D3
IC301	G3
IC302	D1
IC303	H1
IC304	J2
IC306	F5
IC307	J3
IC308	J1
IC309	G2
IC310	G1
IC311	E5
IC312	E4
IC351	A2
IC352	A1
IC353	H3
IC354	J4
IC355	F2
IC401	D8
IC402	D8
IC403	D8
IC404	D6
IC405	E8
IC406	D7
IC407	D7
IC408	B6
IC409	D9
IC410	D10
IC411	E6
IC412	F6
IC413	E8
IC414	∗E7
IC501	A10
IC502	B9
IC504	C9
IC505	B10
IC506	H6
IC601	E9
IC602	E10
IC603	E10
IC604	E9
IC605	E7
IC606	A6
IC607	G7
IC608	H7
IC609	B8
IC610	B8
IC611	J7
IC612	B6
IC801	J10
IC802	J9
IC803	J10
IC851	J10
IC852	H10
IC853	H9
IC901	A10
IC902	A10
IC903	A9
IC904	A8
IC941	A7
IC961	H8
LV961	G8
L1	C8
L2	C8
L301	D1
L601	E7
L602	F7
L603	G8
L604	B8
L941	A7
L961	J7
L981	G9
L982	G9
Q1	∗C7
Q2	∗C7
Q3	C7
Q4	∗A1
Q5	∗C8
Q6	∗C8
Q7	∗B7
Q8	∗B9
Q9	∗C8
Q151	∗A3
Q152	∗A3
Q153	∗A3
Q401	∗C6
Q402	∗C6
Q403	D6
Q404	C6
Q405	B6
Q406	A6
Q407	C6
Q408	B6
Q409	A6
Q501	∗J3
Q502	J5
Q503	∗H9
Q601	∗F9
Q602	∗A6
Q603	∗F7
Q604	F9
Q605	∗F9
Q606	F9
Q607	∗E6
Q608	F10
Q609	∗G10
Q610	∗H6
Q611	∗B8
Q612	∗G8
Q613	∗B8
Q614	∗H6
Q615	∗B7
Q616	∗H7
Q617	∗B7
Q618	J7
Q619	J6
Q620	B7
Q621	B7
Q622	H7
Q623	H6
Q624	B7
Q625	B7
Q626	∗H6
Q627	∗H7
Q628	∗B7
Q629	∗B7
Q801	J8
Q802	J9
Q851	∗J10
Q852	∗J10
Q853	∗J9
Q854	J9
Q855	J9
Q856	H10
Q901	∗A10
Q902	∗A10
Q903	∗A9
Q904	A9
Q905	A9
Q941	∗A7
Q942	A7
Q943	A7
Q944	∗A7
Q945	∗A7
Q961	∗H8
Q962	∗H8
Q963	H7
Q964	∗J8
Q965	∗J8
Q966	H7
RB1	∗C4
RB2	∗C4
RB3	A1
RB4	J2
RB101	D4
RB102	D5
RB151	∗A3
RB152	∗B3
RB153	∗B4
RB154	∗A3
RB155	∗A4
RB156	∗A3
RB157	∗A3
RB158	∗F1
RB159	∗E2
RB160	∗E2
RB161	∗E1
RB162	∗E2
RB163	∗F2
RB301	∗H2
RB302	∗J2
RB303	∗J1
RB304	∗E5
RB305	∗F4
RB401	D8
RB402	D5
RB403	D5
RB404	∗D6
RB405	∗E6
RB406	∗D5
RB501	G6
RB502	G6
RB503	D9
RB504	D9
RB505	D10
RB506	D10
RB508	J6
RB509	J5
RB510	J5
RB511	J5
RB512	∗J5
RB513	J6
RB514	J6
RV1	C7
RV2	B7
RV401	A4
RV402	∗A6
RY961	G8
S1	A5
S151	F1
S501	G6
S502	F6
S503	F6
TP1	B5
TP2	D4
TP3	D4
TP4	C6
TP5	B8
TP6	B8
TP7	B2
TP111	E4
TP112	D4
TP113	D4
TP114	D3
TP116	E3
TP153	E1
TP401	D8
TP501	B9
TP502	B9
TP503	B9
TP504	B9
TP505	B10
TP506	F5
TP507	F5
TP508	B10
TP601	H7
TP602	A8
TP801	J10
TP802	J8
TP851	J10
TP852	H9
TP901	A10
TP902	A8
TP941	A8
TP942	A7
TP961	H8
TP962	H8
X1	B5
X2	D4
X111	D5
X112	E4
X113	D3
X401	D7

∗ : Soldering Side


SYS DATA
SYS ADRS
SYS RESET
IRQ6 CTRL
LTC INT
IRQ5 CTRL
SV RDY
SV ACK
IRQ3 CTRL
SIF2 INT CTRL
SIF2 INT
DAC END CTRL
DAC END
DATA RDY CTRL
DATA RDY
V IND RDY CTRL
V INDEX RDY
TCG FRAME
SYSTEM ON
DATA RDY STATUS
V IND RDY STATUS
SIF2 INT STATUS
DAC END STATUS
PROC FRAME
LCD2 CLOCK
SYS CLK
IC15 MC68340FE16
IC8 TL7705ACPS
IC5 TC4SU69F
POWER ON
SYSTEM ON
DC-DC ON
PROC IF INIT
SAVE/MON CTRL
POWER SW ON
BATT OFF
RXD
TXD
CTS
RTS
SDI AU LEVEL
SYS R/W
RF IF-WT
SIF2-WT
CN902
CN1
ELCO 4pin
FOR TOOL
TP1
TP2
TP3
(RESET)
SYS A0–SYS A21
SYS D0–SYS D15
CLK
1
2
3
4
5
A
B
C
D
E
F
G
H


IC18 (1/2) 74AC139S
IC18 (2/2) 74AC139S
IC19 (1/4) 74AC32SJX
IC19 (2/4) 74AC32SJX
IC19 (3/4) 74AC32SJX
IC19 (4/4) 74AC32SJX
IC7 (4/6) 74AC04SJX
IC7 (5/6) 74AC04SJX
IC7 (6/6) 74AC04SJX
IC6 (1/3) 74AC11S
IC7 (3/6) 74AC04SJX
IC21 (1/4) 74AC32SJX
IC21 (2/4) 74AC32SJX
IC17 (1/3) 74AC74SJX
IC20 (1/4) 74AC32SJX
IC17 (2/3) 74AC74SJX
IC20 (2/4) 74AC32SJX
IC20 (4/4) 74AC32SJX
IC22 (2/3) 74AC74SJX
IC23 (1/3) 74AC74SJX
IC23 (2/3) 74AC74SJX
IC27 (1/4) 74AC32SJX
IC27 (3/4) 74AC32SJX
IC27 (2/4) 74AC32SJX
IC4 (1/4) 74AC08SJX
IC16 (1/3) 74AC74SJX
IC16 (2/3) 74AC74SJX
IC22 (1/3) 74AC74SJX
IC20 (3/4) 74AC32SJX
IC SOCKET
CN124
IC24 M27C4002-10F1
IC25 CXK58257AM-10
IC26 CXK58257AM-10
IC28 SRM2016M10
CS PIO
CS PIO-2
CS LCD2
CS BKUP RAM
CS TCG/TCR
CS DPR PIO
SYS RD
SYS WR
SYS AS
MSTB
SYS W/R
WR TCG/TCR
WR PIO-2
CTRLD CS BKUP RAM
BUCK UP +5V
CN903
UNSW +12V
PSW. 603-17 37
MD CONT
POWER ON
Q1 2SC4177
Q2 DTC144EUA-T106
Q3 2SJ176
D4 ERB83-004
CN902
IC29 TL1451ACNS
Q5 2SB1202-F-T
Q6 2SB1202-F-T
Q7 2SD596
Q8 2SD596
Q9 2SA1611T1-M5M6
CN103
CN904
CN104
CN108, 112
CN110
REG +5V
SST-DPR SP
DPR. 911-1
CS-26. 1-2
CP. 412-9
CN114
DEW SENSOR
DEW
CN109
VTR SAVE/MON
SAVE/MON CTRL
D5 DAN202UT106
Q4 DTC144EUA-T106
IC31 TC35080P
SYS AD DI
SYS AD DOE
SYS AD CK
SYS AD DO
SYS AD SARS
SYS AD CS
CN115, 901
EXT DC LEVEL
INT DC LEVEL
BATT ID
FU. 446-1
FU. 446-3
MB. 915-2, BATT-2
CN112
VIDEO LEVEL 2
VIDEO LEVEL 1
VIDEO LEVEL 0
ADA VR CH1
ADA VR CH2
ADA VR CH3
ADA VR CH4
ADA VR GND
CN111
AD SW 0
AD SW 1
AD SW 2
IC30 MC14051
IC1 (3/3) SN74HC74ANS
IC2 (3/3) SN74HC74ANS
IC4 (4/4) 74AC08SJX
IC10 (9/9) SN74HC541ANS
IC6 (3/3) 74AC11S
IC12 (2/3) SN74HC74ANS
IC11 (3/6) SN74HC05ANS
IC11 (4/6) SN74HC05ANS
IC11 (5/6) SN74HC05ANS
IC11 (6/6) SN74HC05ANS
IC12 (3/3) SN74HC74ANS
IC13 (2/2) SN74HC74ANS
IC14 (6/6) 74AC541SJ
IC16 (3/3) 74AC74SJX
IC17 (3/3) 74AC74SJX
IC22 (3/3) 74AC74SJX
IC23 (3/3) 74AC74SJX
TP1–TP8
E1 E2 E3 E4 E5 E6 E7 E8
(TPE1) (TPE2) (TPE3) (TPE4) (TPE5) (TPE6) (TPE7) (TPE8)

*SST-3BOARD N.P NOTE

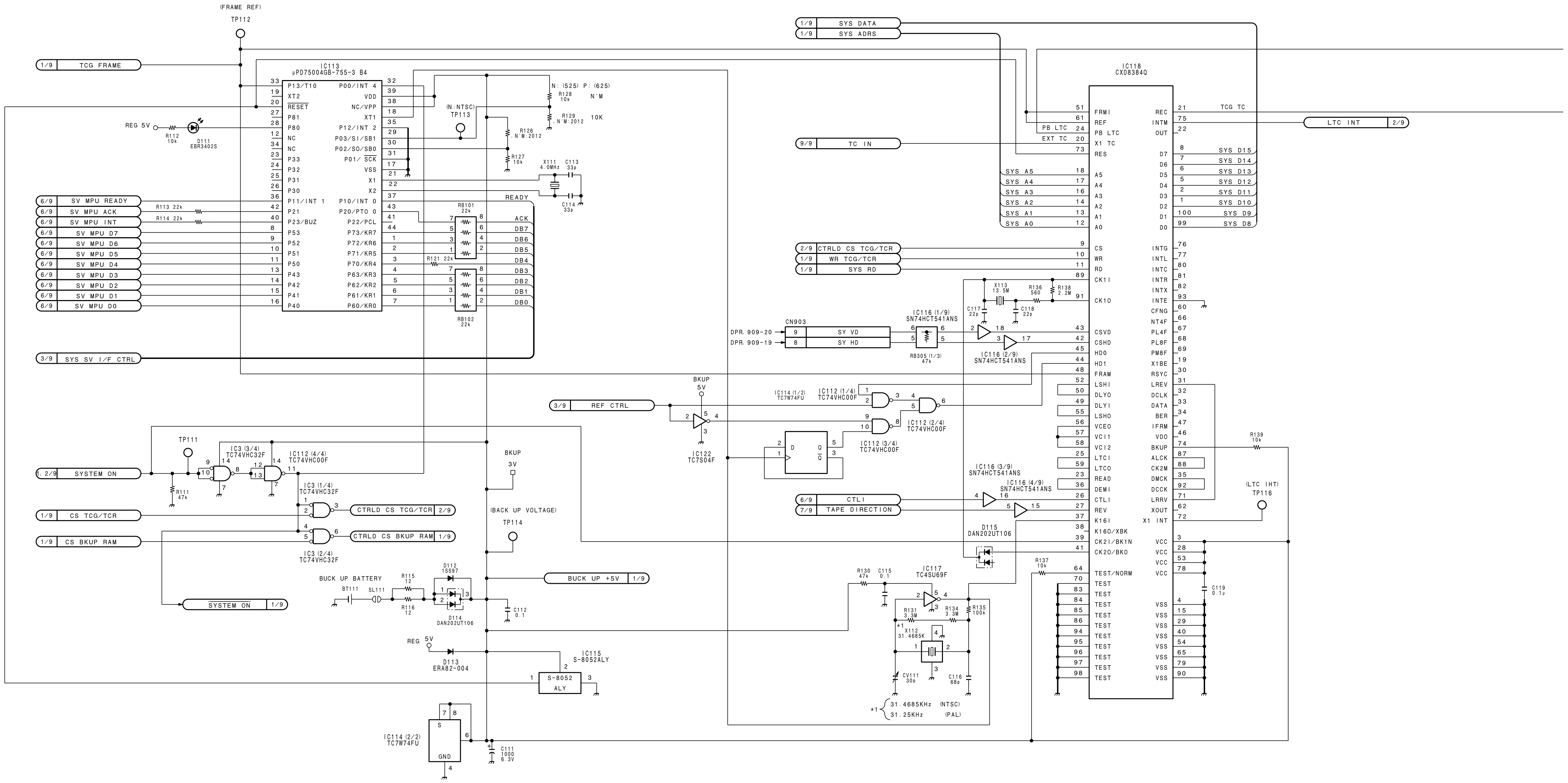
REF.	NTSC	PAL
C806	0.0047 1-104-547-91	0.0056 1-104-548-91
R128	10K 1-216-073-91	NOT MOUNT
R129	NOT MOUNT	10K 1-216-073-91
R252	10K 1-216-073-91	NOT MOUNT
R253	NOT MOUNT	10K 1-216-073-91
X112	31.4685KHz 1-578-742-11	31.25KHz 1-578-741-11

SERVO & SYSTEM CONTROL, TIMECODE
FULL ERASE & CHANNEL ERASE OSCILLATOR

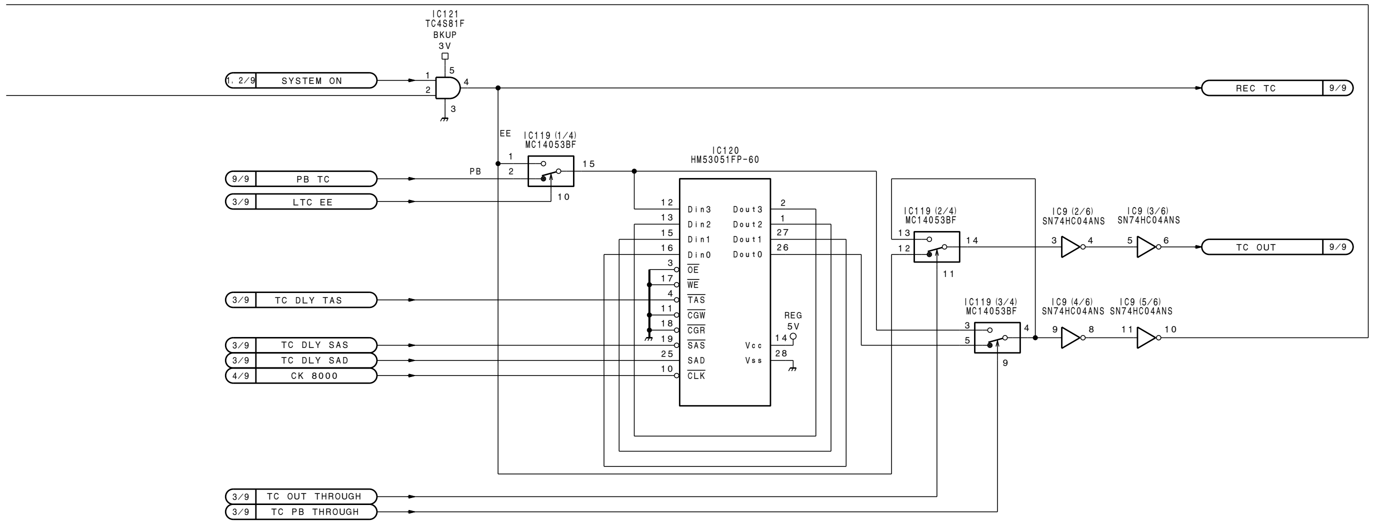
SST-3 (1/9)

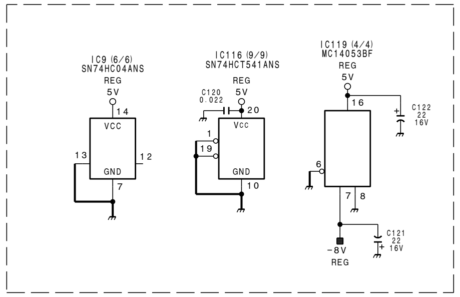
BOARD NO. 1-657-804-11
LOT NO. 409-
B-¥DVW250-SST1-11

SST-3 (2/9)


(FRAME REF)
TP112
TCG FRAME
IC113
μPD75004GB-755-3 B4
REG 5V
D111
EBR3402S
SV MPU READY
SV MPU ACK
SV MPU INT
SV MPU D7
SV MPU D6
SV MPU D5
SV MPU D4
SV MPU D3
SV MPU D2
SV MPU D1
SV MPU D0
SYS SV I/F CTRL
RB101 22k
RB102 22k
READY
ACK
DB7
DB6
DB5
DB4
DB3
DB2
DB1
DB0
(N:NTSC)
TP113
N: (525) P: (625)
X111 4.0MHz
C113 33p
C114 33p
SYS DATA
SYS ADRS
TC IN
IC118
CXD8384Q
TCG TC
LTC INT
SYS D15
SYS D14
SYS D13
SYS D12
SYS D11
SYS D10
SYS D9
SYS D8
SYS A5
SYS A4
SYS A3
SYS A2
SYS A1
SYS A0
PB LTC
EXT TC
CTRLD CS TCG/TCR
WR TCG/TCR
SYS RD
X113 13.5M
R136 560
R138 2.2M
IC116 (1/9) SN74HCT541ANS
CN903
DPR. 909-20
DPR. 909-19
SY VD
SY HD
RB305 (1/3) 47k
IC116 (2/9) SN74HCT541ANS
BKUP 5V
REF CTRL
IC114 (1/2) TC7W74FU
IC112 (1/4) TC74VHC00F
IC112 (2/4) TC74VHC00F
IC112 (3/4) TC74VHC00F
IC122 TC7S04F
TP111
IC3 (3/4) TC74VHC32F
IC112 (4/4) TC74VHC00F
SYSTEM ON
R111 47k
IC3 (1/4) TC74VHC32F
CS TCG/TCR
CTRLD CS TCG/TCR
CS BKUP RAM
CTRLD CS BKUP RAM
IC3 (2/4) TC74VHC32F
BKUP 3V
(BACK UP VOLTAGE)
TP114
BUCK UP BATTERY
BT111
SL111
D112 1SS97
D114 DAN202UT106
BUCK UP +5V
C112 0.1
REG 5V
D113 ERA82-004
IC115 S-8052ALY
IC114 (2/2) TC7W74FU
C111 1000 6.3V
IC116 (3/9) SN74HCT541ANS
IC116 (4/9) SN74HCT541ANS
CTLI
TAPE DIRECTION
D115 DAN202UT106
IC117 TC4SU69F
X112 31.4685K
CV111 30p
C116 68p
*1 31.4685KHz (NTSC) 31.25KHz (PAL)
R139 10k
(LTC IHT) TP116
C119 0.1μ

3-78


IC121
TC4S81F
BKUP
3V
1, 2/9 SYSTEM ON
REC TC 9/9
EE
PB
IC119 (1/4)
MC14053BF
9/9 PB TC
3/9 LTC EE
IC120
HM53051FP-60
Din3
Din2
Din1
Din0
OE
WE
TAS
CGW
CGR
SAS
SAD
CLK
Dout3
Dout2
Dout1
Dout0
REG
5V
Vcc
Vss
3/9 TC DLY TAS
3/9 TC DLY SAS
3/9 TC DLY SAD
4/9 CK 8000
IC119 (2/4)
MC14053BF
IC9 (2/6)
SN74HC04ANS
IC9 (3/6)
SN74HC04ANS
TC OUT 9/9
IC119 (3/4)
MC14053BF
IC9 (4/6)
SN74HC04ANS
IC9 (5/6)
SN74HC04ANS
3/9 TC OUT THROUGH
3/9 TC PB THROUGH

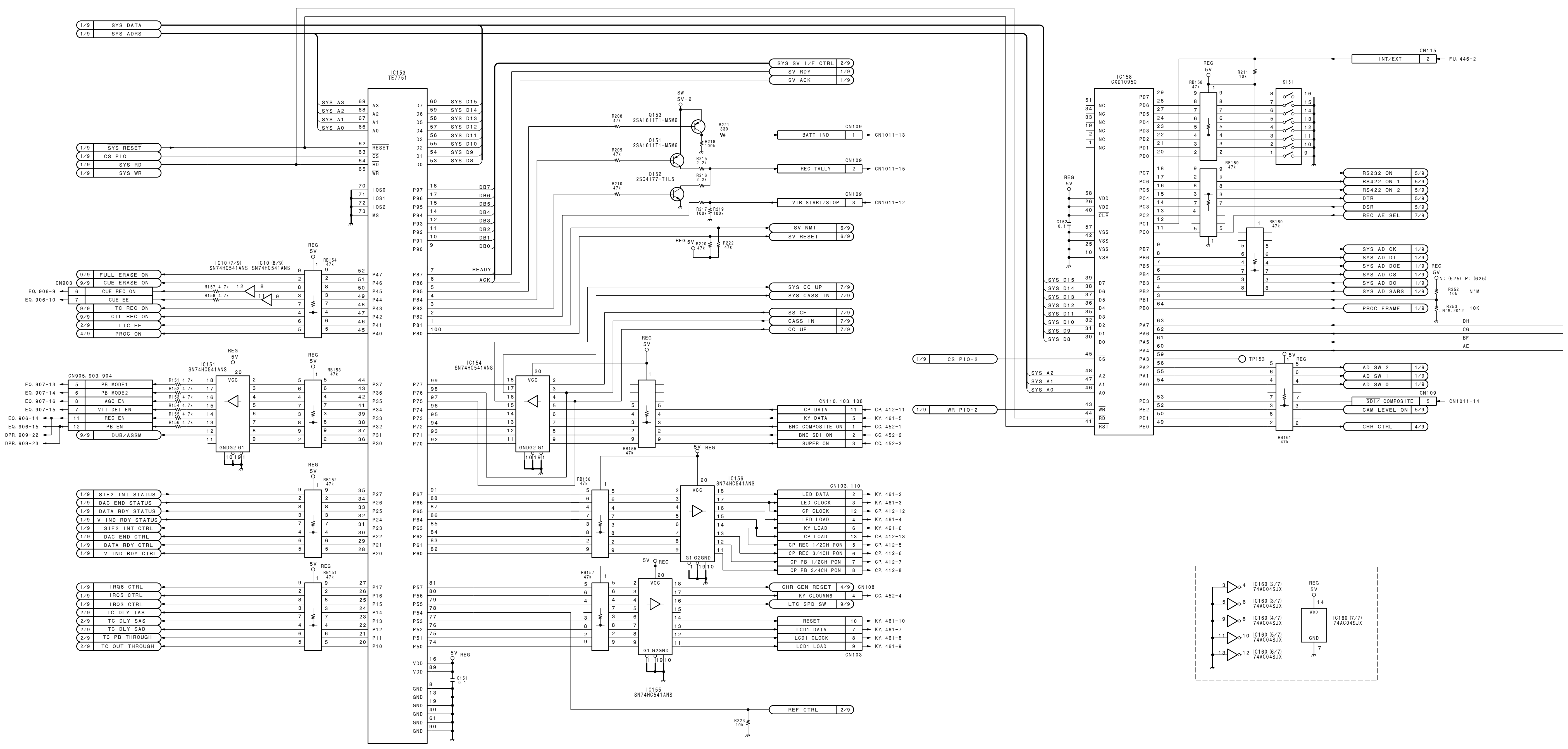

IC9 (6/6)
SN74HC04ANS
REG
5V
VCC
GND
IC116 (9/9)
SN74HCT541ANS
REG
5V
C120
0.022
Vcc
GND
IC119 (4/4)
MC14053BF
REG
5V
C122
22
16V
C121
22
16V
−8V
REG

SERVO & SYSTEM CONTROL, TIMECODE
FULL ERASE & CHANNEL ERASE OSCILLATOR

SST-3 (2/9)

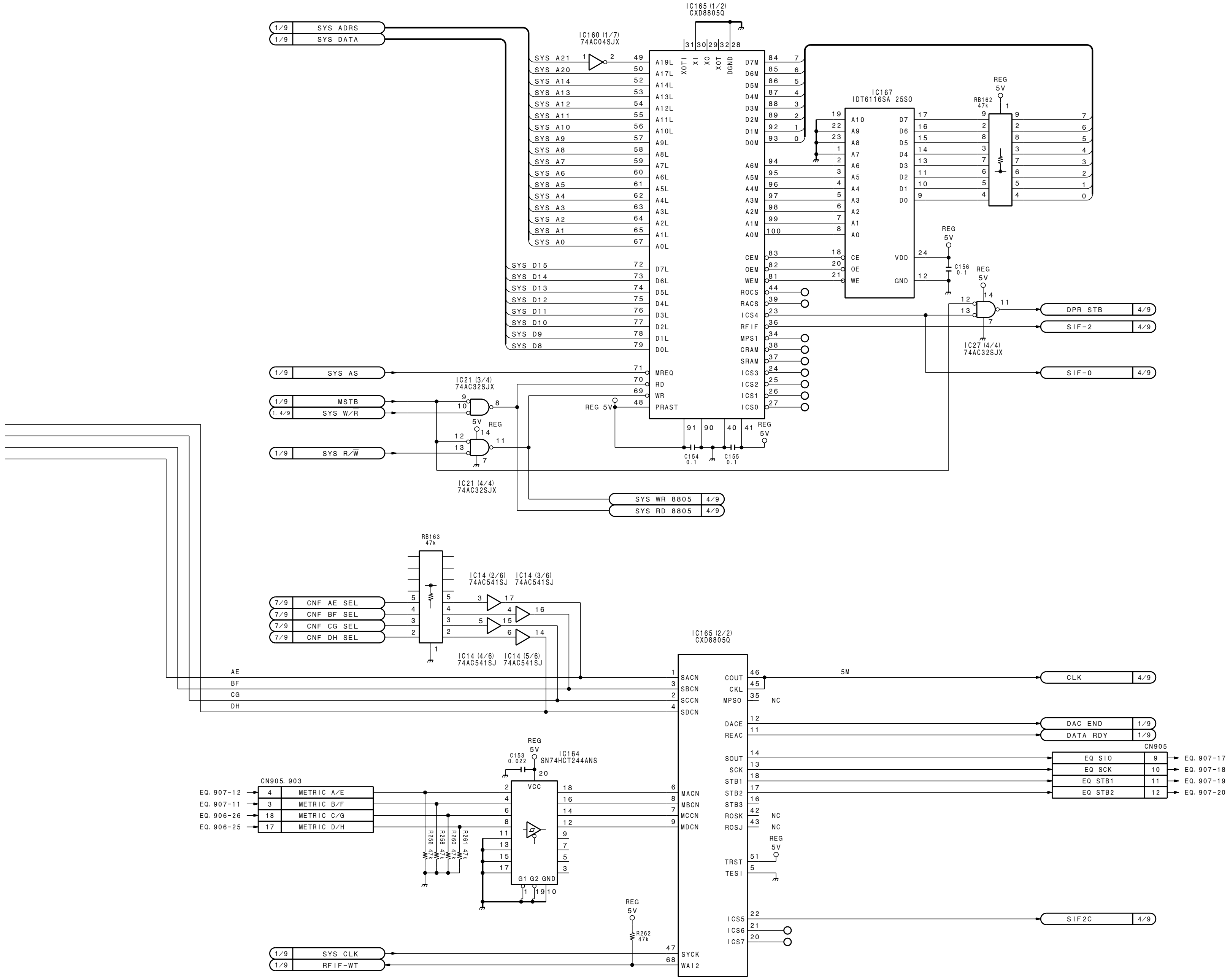
BOARD NO. 1-657-804-11
LOT NO. 409-
B-¥DVW250-SST1-11

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)



1
2
3
4
5
SYS DATA
SYS ADRS
SYS RESET
CS PIO
SYS RD
SYS WR
IC153 TE7751
SYS A3
SYS A2
SYS A1
SYS A0
RESET
CS
RD
WR
IOS0
IOS1
IOS2
MS
SYS D15
SYS D14
SYS D13
SYS D12
SYS D11
SYS D10
SYS D9
SYS D8
DB7
DB6
DB5
DB4
DB3
DB2
DB1
DB0
READY
ACK
SYS SV I/F CTRL
SV RDY
SV ACK
Q153 2SA1611T1-M5M6
Q151 2SA1611T1-M5M6
Q152 2SC4177-T1L5
SW 5V-2
BATT IND
REC TALLY
VTR START/STOP
CN109
CN1011-13
CN1011-15
CN1011-12
SV NMI
SV RESET
SYS CC UP
SYS CASS IN
SS CF
CASS IN
CC UP
FULL ERASE ON
CUE ERASE ON
CUE REC ON
CUE EE
TC REC ON
CTL REC ON
LTC EE
PROC ON
CN903
EQ. 906-9
EQ. 906-10
IC10 (7/9) SN74HC541ANS
IC10 (8/9) SN74HC541ANS
RB154 47k
CN905, 903, 904
PB MODE1
PB MODE2
AGC EN
VIT DET EN
REC EN
PB EN
DUB/ASSM
EQ. 907-13
EQ. 907-14
EQ. 907-16
EQ. 907-15
EQ. 906-14
EQ. 906-15
DPR. 909-22
DPR. 909-23
IC151 SN74HC541ANS
RB153 47k
IC154 SN74HC541ANS
RB155 47k
CN110, 103, 108
CP DATA
KY DATA
BNC COMPOSITE ON
BNC SDI ON
SUPER ON
CP. 412-11
KY. 461-5
CC. 452-1
CC. 452-2
CC. 452-3
SIF2 INT STATUS
DAC END STATUS
DATA RDY STATUS
V IND RDY STATUS
SIF2 INT CTRL
DAC END CTRL
DATA RDY CTRL
V IND RDY CTRL
RB152 47k
RB156 47k
IC156 SN74HC541ANS
CN103, 110
LED DATA
LED CLOCK
CP CLOCK
LED LOAD
KY LOAD
CP LOAD
CP REC 1/2CH PON
CP REC 3/4CH PON
CP PB 1/2CH PON
CP PB 3/4CH PON
KY. 461-2
KY. 461-3
CP. 412-12
KY. 461-4
KY. 461-6
CP. 412-13
CP. 412-5
CP. 412-6
CP. 412-7
CP. 412-8
IRQ6 CTRL
IRQ5 CTRL
IRQ3 CTRL
TC DLY TAS
TC DLY SAS
TC DLY SAD
TC PB THROUGH
TC OUT THROUGH
RB151 47k
RB157 47k
IC155 SN74HC541ANS
CHR GEN RESET
KY CLOUMN6
LTC SPD SW
CN108
CC. 452-4
RESET
LCD1 DATA
LCD1 CLOCK
LCD1 LOAD
KY. 461-10
KY. 461-7
KY. 461-8
KY. 461-9
CN103
C151 0.1
REF CTRL
R223 10k
IC158 CXD1095Q
CN115
INT/EXT
FU. 446-2
RB158 47k
R211 10k
S151
RB159 47k
RS232 ON
RS422 ON 1
RS422 ON 2
DTR
DSR
REC AE SEL
RB160 47k
SYS AD CK
SYS AD DI
SYS AD DOE
SYS AD CS
SYS AD DO
SYS AD SARS
PROC FRAME
N: (525) P: (625)
R252 10k N'M
R253 N'M:2012 10K
DH
CG
BF
AE
CS PIO-2
WR PIO-2
TP153
AD SW 2
AD SW 1
AD SW 0
SDI/ COMPOSITE
CN1011-14
CAM LEVEL ON
CHR CTRL
RB161 47k
C153 0.1
IC160 (2/7) 74AC04SJX
IC160 (3/7) 74AC04SJX
IC160 (4/7) 74AC04SJX
IC160 (5/7) 74AC04SJX
IC160 (6/7) 74AC04SJX
IC160 (7/7) 74AC04SJX
VDD
GND
REG 5V

A B C D E F G H

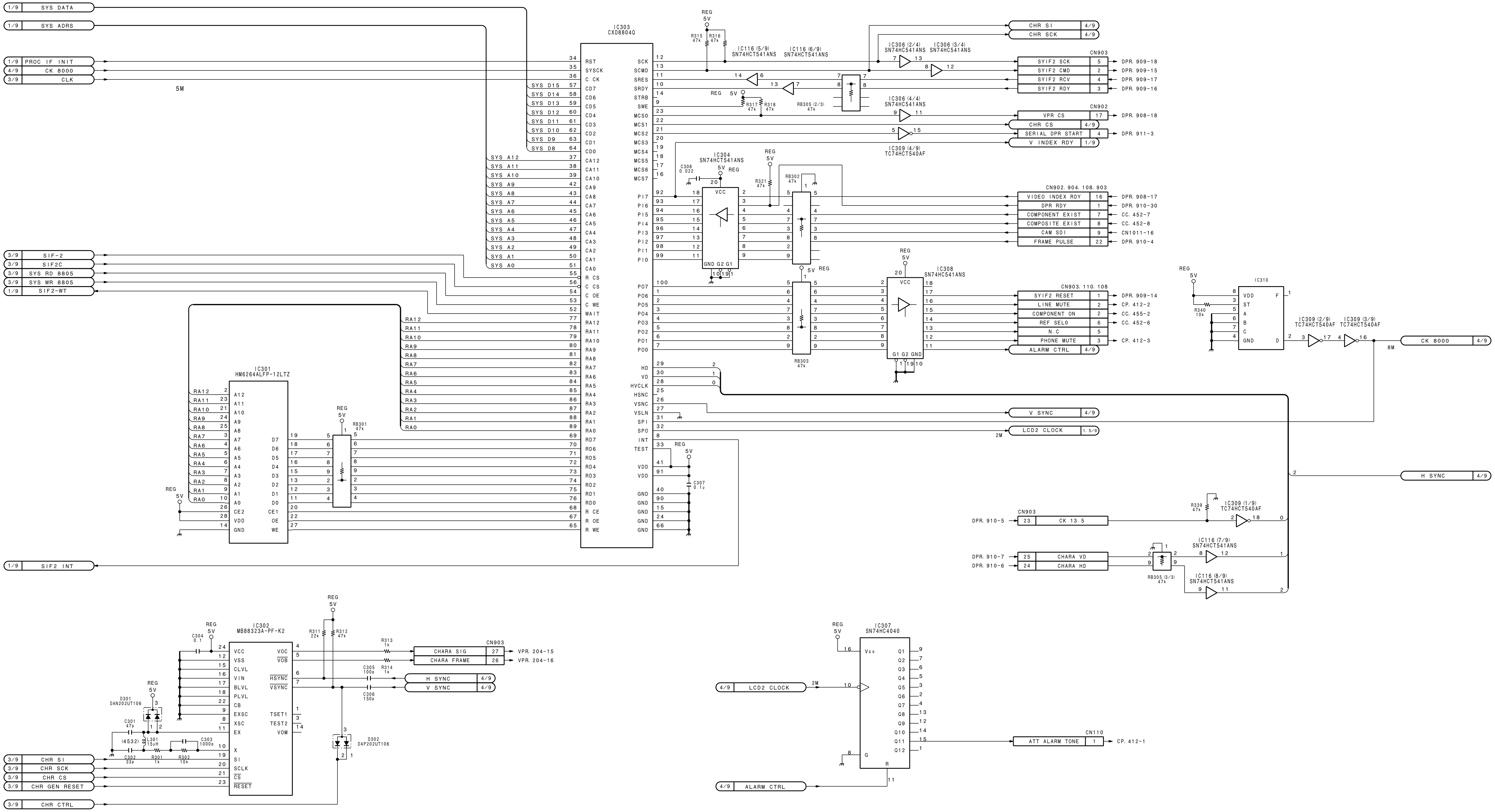

SYS ADRS 1/9
SYS DATA 1/9
IC160 (1/7) 74AC04SJX
IC165 (1/2) CXD8805Q
SYS A21
SYS A20
SYS A14
SYS A13
SYS A12
SYS A11
SYS A10
SYS A9
SYS A8
SYS A7
SYS A6
SYS A5
SYS A4
SYS A3
SYS A2
SYS A1
SYS A0
SYS D15
SYS D14
SYS D13
SYS D12
SYS D11
SYS D10
SYS D9
SYS D8
A19L A17L A14L A13L A12L A11L A10L A9L A8L A7L A6L A5L A4L A3L A2L A1L A0L
D7L D6L D5L D4L D3L D2L D1L D0L
MREQ RD WR PRAST
XOTI XI XO XOT DGND
D7M D6M D5M D4M D3M D2M D1M D0M
A6M A5M A4M A3M A2M A1M A0M
CEM OEM WEM ROCS RACS ICS4 RFIF MPS1 CRAM SRAM ICS3 ICS2 ICS1 ICS0
IC167 IDT6116SA 25SO
A10 A9 A8 A7 A6 A5 A4 A3 A2 A1 A0 CE OE WE
D7 D6 D5 D4 D3 D2 D1 D0 VDD GND
REG 5V
RB162 47k
C156 0.1
IC27 (4/4) 74AC32SJX
DPR STB 4/9
SIF-2 4/9
SIF-0 4/9
SYS AS 1/9
MSTB 1/9
SYS W/R 1/4/9
SYS R/W 1/9
IC21 (3/4) 74AC32SJX
IC21 (4/4) 74AC32SJX
C154 0.1
C155 0.1
SYS WR 8805 4/9
SYS RD 8805 4/9
RB163 47k
IC14 (2/6) 74AC541SJ
IC14 (3/6) 74AC541SJ
IC14 (4/6) 74AC541SJ
IC14 (5/6) 74AC541SJ
CNF AE SEL 7/9
CNF BF SEL 7/9
CNF CG SEL 7/9
CNF DH SEL 7/9
AE
BF
CG
DH
IC165 (2/2) CXD8805Q
SACN SBCN SCCN SDCN
COUT CKL MPSO
5M
CLK 4/9
NC
DACE REAC
DAC END 1/9
DATA RDY 1/9
CN905
SOUT SCK STB1 STB2 STB3 ROSK ROSJ
EQ SIO 9 EQ.907-17
EQ SCK 10 EQ.907-18
EQ STB1 11 EQ.907-19
EQ STB2 12 EQ.907-20
MACN MBCN MCCN MDCN
TRST TESI
ICS5 ICS6 ICS7
SIF2C 4/9
REG 5V
C153 0.022
IC164 SN74HCT244ANS
VCC
G1 G2 GND
CN905, 903
EQ.907-12 4 METRIC A/E
EQ.907-11 3 METRIC B/F
EQ.906-26 18 METRIC C/G
EQ.906-25 17 METRIC D/H
R258 R259 R260 R261 47k
R262 47k
SYCK WAI2
SYS CLK 1/9
RFIF-WT 1/9

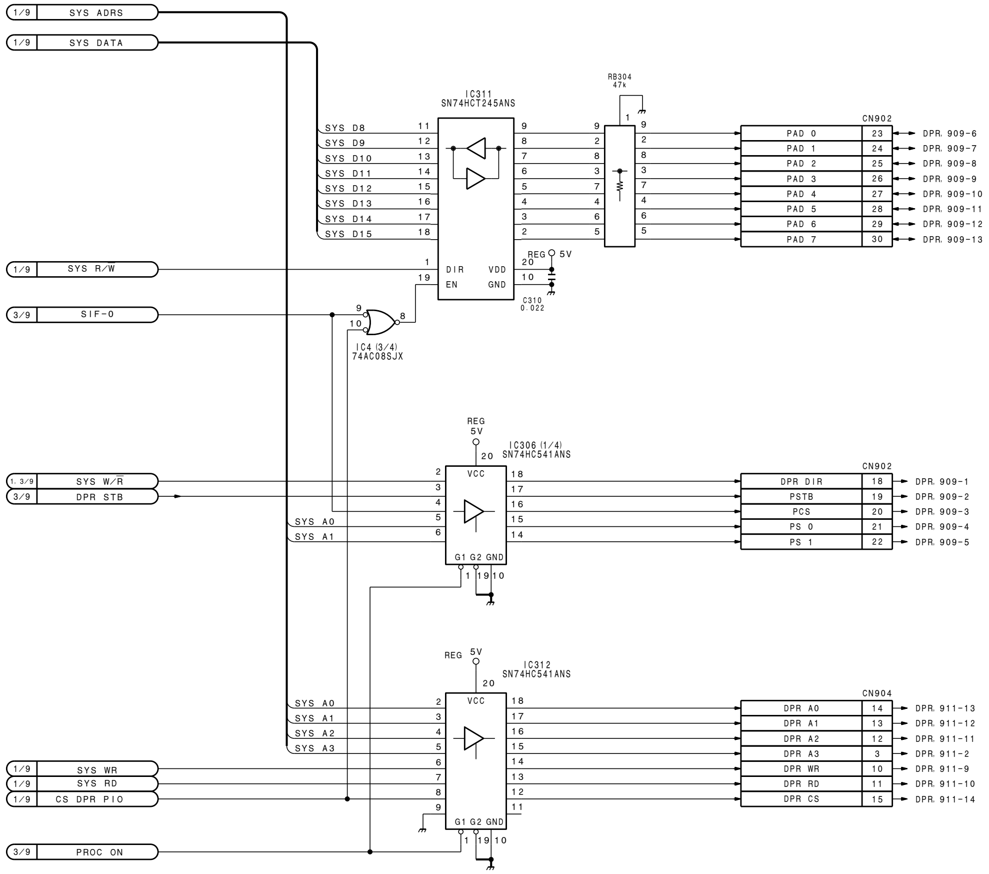
SERVO & SYSTEM CONTROL, TIMECODE
FULL ERASE & CHANNEL ERASE OSCILLATOR

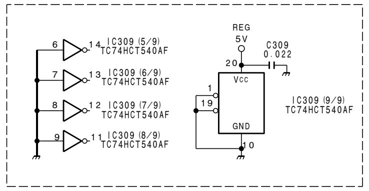
SST-3 (3/9)

BOARD NO. 1-657-804-11
LOT NO. 409-
B-¥DVW250-SST1-11

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


SYS DATA
SYS ADRS
PROC IF INIT
CK 8000
CLK
5M
IC303
CXD8804Q
RST
SYSCK
C CK
SYS D15
SYS D14
SYS D13
SYS D12
SYS D11
SYS D10
SYS D9
SYS D8
SYS A12
SYS A11
SYS A10
SYS A9
SYS A8
SYS A7
SYS A6
SYS A5
SYS A4
SYS A3
SYS A2
SYS A1
SYS A0
SIF-2
SIF2C
SYS RD 8805
SYS WR 8805
SIF2-WT
SIF2 INT
IC301
HM6264ALFP-12LTZ
RA12
RA11
RA10
RA9
RA8
RA7
RA6
RA5
RA4
RA3
RA2
RA1
RA0
RB301
47k
IC116 (5/9)
SN74HCT541ANS
IC116 (6/9)
SN74HCT541ANS
IC306 (2/4)
SN74HC541ANS
IC306 (3/4)
SN74HC541ANS
IC306 (4/4)
SN74HC541ANS
IC309 (4/9)
TC74HCT540AF
R315
47k
R316
47k
R317
47k
R318
47k
RB305 (2/3)
47k
CHR SI
CHR SCK
CN903
SYIF2 SCK
SYIF2 CMD
SYIF2 RCV
SYIF2 RDY
DPR. 909-18
DPR. 909-15
DPR. 909-17
DPR. 909-16
CN902
VPR CS
CHR CS
SERIAL DPR START
V INDEX RDY
DPR. 908-18
DPR. 911-3
IC304
SN74HCT541ANS
C308
0.022
R321
47k
RB302
47k
CN902, 904, 108, 903
VIDEO INDEX RDY
DPR RDY
COMPONENT EXIST
COMPOSITE EXIST
CAM SDI
FRAME PULSE
DPR. 908-17
DPR. 910-30
CC. 452-7
CC. 452-8
CN1011-16
DPR. 910-4
IC308
SN74HC541ANS
RB303
47k
CN903, 110, 108
SYIF2 RESET
LINE MUTE
COMPONENT ON
REF SEL0
N C
PHONE MUTE
ALARM CTRL
DPR. 909-14
CP. 412-2
CC. 455-2
CC. 452-6
CP. 412-3
IC310
R340
10k
IC309 (2/9)
TC74HCT540AF
IC309 (3/9)
TC74HCT540AF
CK 8000
8M
V SYNC
LCD2 CLOCK
2M
H SYNC
C307
0.1µ
R339
47k
IC309 (1/9)
TC74HCT540AF
CN903
DPR. 910-5
CK 13.5
IC116 (7/9)
SN74HCT541ANS
DPR. 910-7
DPR. 910-6
CHARA VD
CHARA HD
RB305 (3/3)
47k
IC116 (8/9)
SN74HCT541ANS
IC302
MB88323A-PF-K2
C304
0.1
R311
22k
R312
47k
R313
1k
R314
1k
CN903
CHARA SIG
CHARA FRAME
VPR. 204-15
VPR. 204-16
C305
100p
C306
150p
H SYNC
V SYNC
D301
DAN202UT106
D302
DAP202UT106
C301
47p
(4532)
L301
15µH
C303
1000p
C302
33p
R301
1k
R302
10k
CHR SI
CHR SCK
CHR CS
CHR GEN RESET
CHR CTRL
IC307
SN74HC4040
LCD2 CLOCK
ALARM CTRL
CN110
ATT ALARM TONE
CP. 412-1
REG
5V


1/9 SYS ADRS
1/9 SYS DATA
IC311
SN74HCT245ANS
SYS D8 11
SYS D9 12
SYS D10 13
SYS D11 14
SYS D12 15
SYS D13 16
SYS D14 17
SYS D15 18
9 8 7 6 5 4 3 2
DIR
VDD
EN
GND
1
19
20
10
REG 5V
C310
0.022
RB304
47k
1
9 2 8 3 7 4 6 5
CN902
PAD 0 23 DPR, 909-6
PAD 1 24 DPR, 909-7
PAD 2 25 DPR, 909-8
PAD 3 26 DPR, 909-9
PAD 4 27 DPR, 909-10
PAD 5 28 DPR, 909-11
PAD 6 29 DPR, 909-12
PAD 7 30 DPR, 909-13
1/9 SYS R/$\overline{W}$
3/9 SIF-0
9
10
8
IC4 (3/4)
74AC08SJX
REG
5V
20
IC306 (1/4)
SN74HC541ANS
VCC
1, 3/9 SYS W/$\overline{R}$
3/9 DPR STB
SYS A0
SYS A1
2 3 4 5 6
18 17 16 15 14
G1 G2 GND
1 19 10
CN902
DPR DIR 18 DPR, 909-1
PSTB 19 DPR, 909-2
PCS 20 DPR, 909-3
PS 0 21 DPR, 909-4
PS 1 22 DPR, 909-5
REG 5V
20
IC312
SN74HC541ANS
VCC
SYS A0
SYS A1
SYS A2
SYS A3
1/9 SYS WR
1/9 SYS RD
1/9 CS DPR PIO
3/9 PROC ON
2 3 4 5 6 7 8 9
18 17 16 15 14 13 12 11
G1 G2 GND
1 19 10
CN904
DPR A0 14 DPR, 911-13
DPR A1 13 DPR, 911-12
DPR A2 12 DPR, 911-11
DPR A3 3 DPR, 911-2
DPR WR 10 DPR, 911-9
DPR RD 11 DPR, 911-10
DPR CS 15 DPR, 911-14

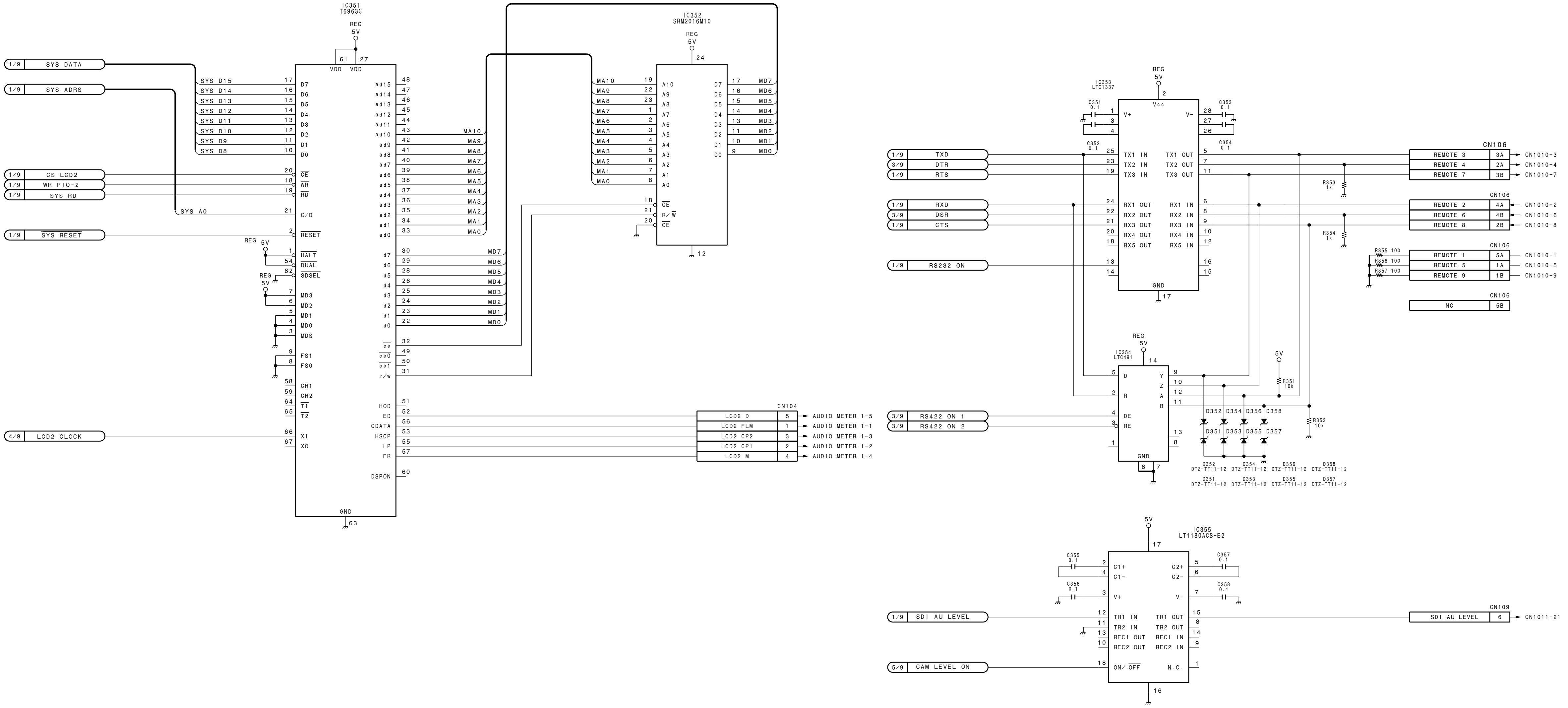

6 14 IC309 (5/9)
TC74HCT540AF
7 13 IC309 (6/9)
TC74HCT540AF
8 12 IC309 (7/9)
TC74HCT540AF
9 11 IC309 (8/9)
TC74HCT540AF
REG
5V
C309
0.022
20
VCC
1
19
GND
10
IC309 (9/9)
TC74HCT540AF

SERVO & SYSTEM CONTROL, TIMECODE
FULL ERASE & CHANNEL ERASE OSCILLATOR

SST-3 (4/9)

BOARD NO. 1-657-804-11
LOT NO. 409-
B-¥DVW250-SST1-11

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


IC351
T6963C
IC352
SRM2016M10
IC353
LTC1337
IC354
LTC491
IC355
LT1180ACS-E2
REG 5V
SYS DATA
SYS ADRS
CS LCD2
WR PIO-2
SYS RD
SYS A0
SYS RESET
LCD2 CLOCK
TXD
DTR
RTS
RXD
DSR
CTS
RS232 ON
RS422 ON 1
RS422 ON 2
SDI AU LEVEL
CAM LEVEL ON
CN104
LCD2 D
LCD2 FLM
LCD2 CP2
LCD2 CP1
LCD2 M
AUDIO METER 1-5
AUDIO METER 1-1
AUDIO METER 1-3
AUDIO METER 1-2
AUDIO METER 1-4
CN106
REMOTE 3
REMOTE 4
REMOTE 7
REMOTE 2
REMOTE 6
REMOTE 8
REMOTE 1
REMOTE 5
REMOTE 9
NC
CN1010-3
CN1010-4
CN1010-7
CN1010-2
CN1010-6
CN1010-8
CN1010-1
CN1010-5
CN1010-9
CN109
CN1011-21
D351 - D358 DTZ-TT11-12

SERVO & SYSTEM CONTROL, TIMECODE
FULL ERASE & CHANNEL ERASE OSCILLATOR

SST-3 (5/9)

BOARD NO. 1-657-804-11
LOT NO. 409-
B-¥DVW250-SST1-11

SST-3 (6/9) SST-3 (6/9)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

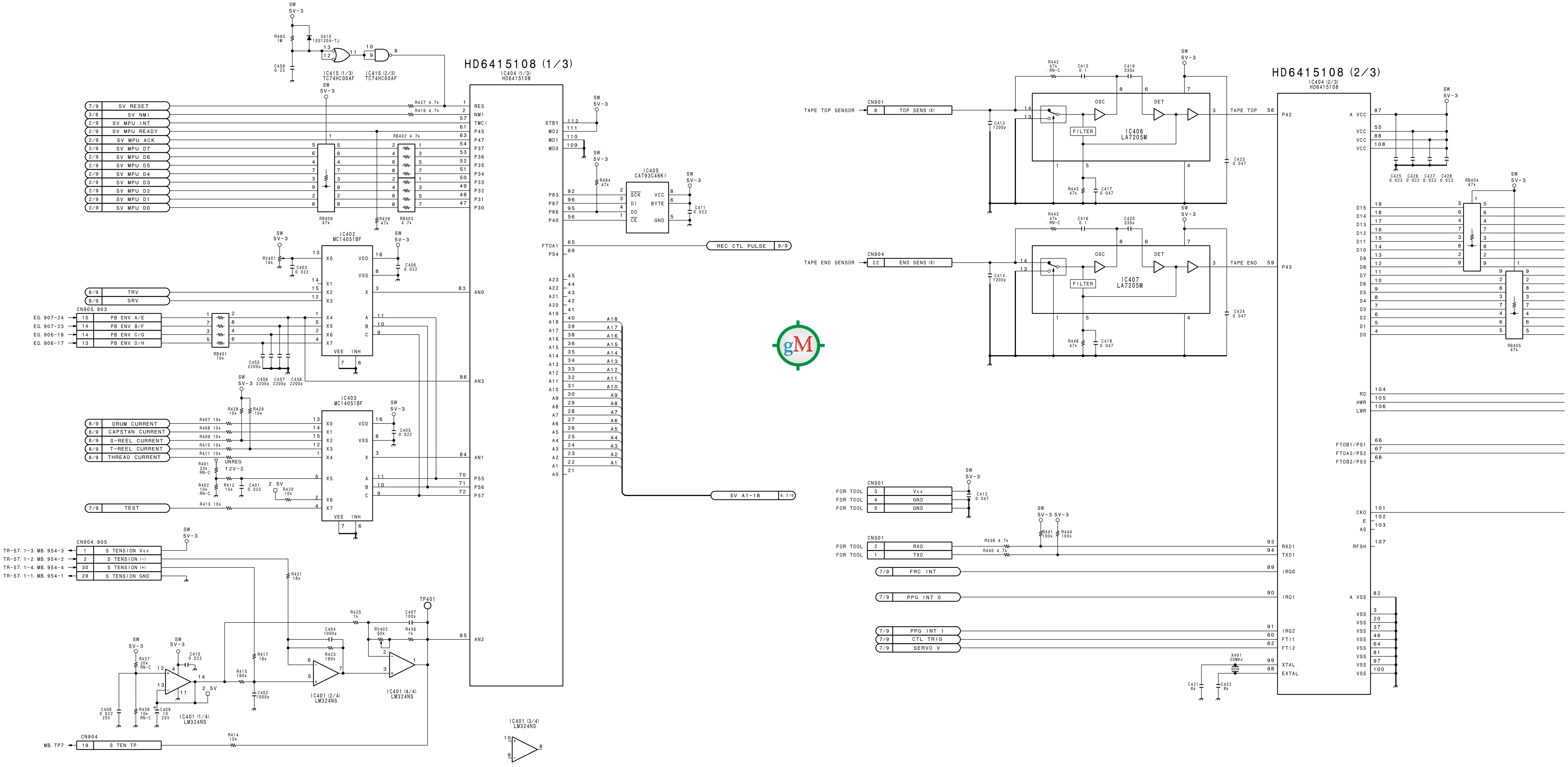
1

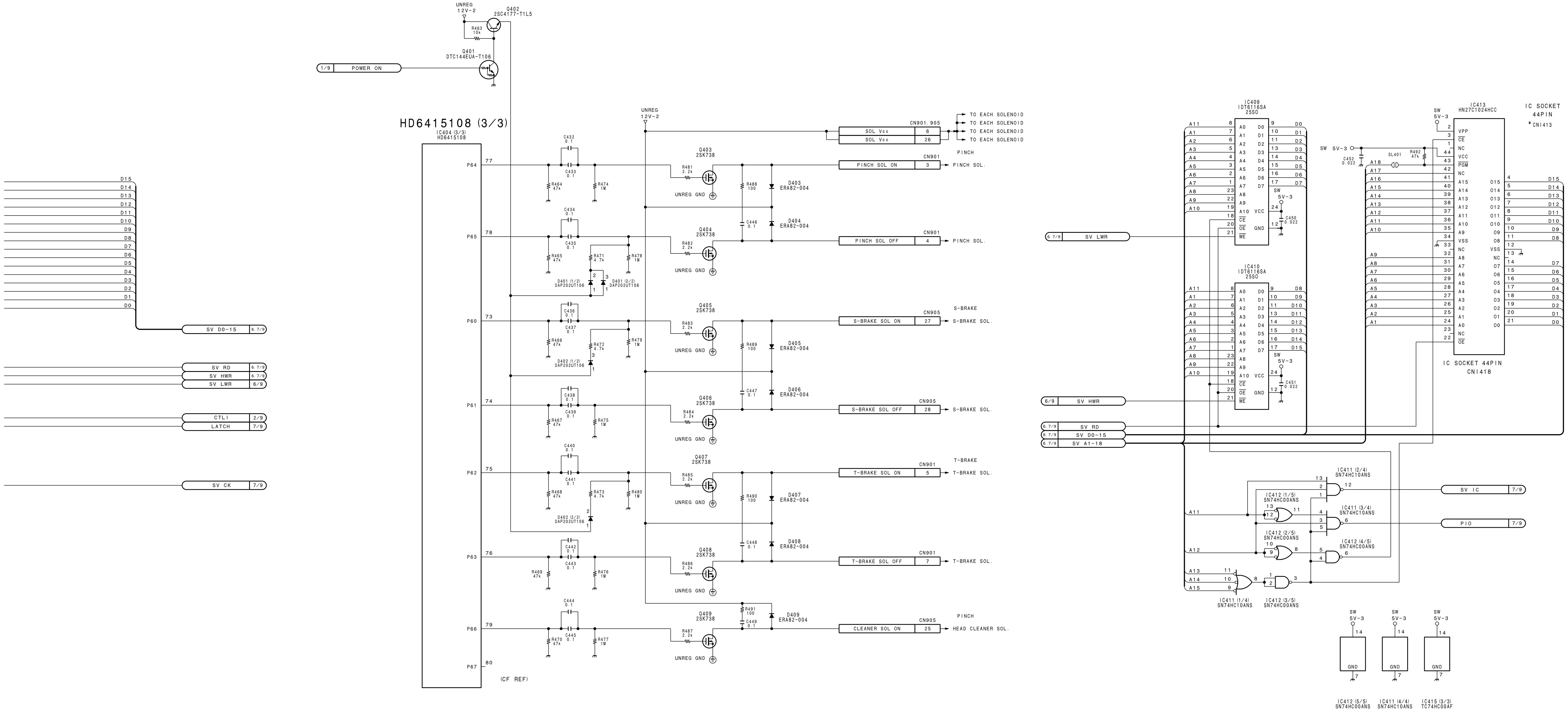
2

3

4

5


HD6415108 (1/3)
IC404 (1/3) HD6415108
HD6415108 (2/3)
IC404 (2/3) HD6415108
IC415 (1/3) TC74HC00AF
IC415 (2/3) TC74HC00AF
D410 1SS120X-TJ
IC402 MC14051BF
IC403 MC14051BF
IC405 CAT93C46KI
IC406 LA7205M
IC407 LA7205M
IC401 (1/4) LM324NS
IC401 (2/4) LM324NS
IC401 (3/4) LM324NS
IC401 (4/4) LM324NS
SV RESET
SV NMI
SV MPU INT
SV MPU READY
SV MPU ACK
SV MPU D7
SV MPU D6
SV MPU D5
SV MPU D4
SV MPU D3
SV MPU D2
SV MPU D1
SV MPU D0
TRV
SRV
PB ENV A/E
PB ENV B/F
PB ENV C/G
PB ENV D/H
DRUM CURRENT
CAPSTAN CURRENT
S-REEL CURRENT
T-REEL CURRENT
TEST
S TENSION Vcc
S TENSION (-)
S TENSION (+)
S TENSION GND
S TEN TP
REC CTL PULSE
SV A1-18
TAPE TOP SENSOR
TOP SENS (X)
TAPE END SENSOR
END SENS (X)
TAPE TOP
TAPE END
OSC
DET
FILTER
FOR TOOL
Vcc
GND
RXD
TXD
FRC INT
PPG INT 0
PPG INT 1
CTL TRIG
SERVO V
X401 20MHz
TP401
SW 5V-3
UNREG 12V-2
2.5V
CN901
CN904
CN905, 903
CN904, 905
CN501
EQ. 907-24
EQ. 907-23
EQ. 906-18
EQ. 906-17
TR-57, 1-3, MB, 954-3
TR-57, 1-2, MB, 954-2
TR-57, 1-4, MB, 954-4
TR-57, 1-1, MB, 954-1
MB, TP7
RES
NMI
TMCI
STBY
MD2
MD1
MD0
P83
P87
P86
P40
FTOA1
P54
AN0
AN1
AN2
AN3
P55
P56
P57
P42
P43
A VCC
VCC
D15
D0
RD
HWR
LWR
FTOB1/P51
FTOA2/P52
FTOB2/P53
CKO
E
AS
RFSH
RXD1
TXD1
IRQ0
IRQ1
IRQ2
FTI1
FTI2
XTAL
EXTAL
A VSS
VSS


HD6415108 (3/3)
IC404 (3/3)
HD6415108
P64 77
P65 78
P60 73
P61 74
P62 75
P63 76
P66 79
P67 80
(CF REF)
UNREG 12V-2
Q402 2SC4177-T1L5
R463 10k
Q401 DTC144EUA-T106
1/9 POWER ON
D15 D14 D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
SV D0-15 6.7/9
SV RD 6.7/9
SV HWR 6.7/9
SV LWR 6/9
CTLI 2/9
LATCH 7/9
SV CK 7/9
C432 0.1
C433 0.1
C434 0.1
C435 0.1
C436 0.1
C437 0.1
C438 0.1
C439 0.1
C440 0.1
C441 0.1
C442 0.1
C443 0.1
C444 0.1
C445 0.1
R464 47k
R465 47k
R466 47k
R467 47k
R468 47k
R469 47k
R470 47k
R474 1M
R475 1M
R476 1M
R477 1M
R478 1M
R479 1M
R480 1M
R471 4.7k
R472 4.7k
R473 4.7k
D401 (1/2) DAP202UT106
D401 (2/2) DAP202UT106
D402 (1/2) DAP202UT106
D402 (2/2) DAP202UT106
Q403 2SK738
Q404 2SK738
Q405 2SK738
Q406 2SK738
Q407 2SK738
Q408 2SK738
Q409 2SK738
R481 2.2k
R482 2.2k
R483 2.2k
R484 2.2k
R485 2.2k
R486 2.2k
R487 2.2k
UNREG GND
R488 100
R489 100
R490 100
R491 100
C446 0.1
C447 0.1
C448 0.1
C449 0.1
D403 ERA82-004
D404 ERA82-004
D405 ERA82-004
D406 ERA82-004
D407 ERA82-004
D408 ERA82-004
D409 ERA82-004
CN901, 905
SOL Vcc 6
SOL Vcc 26
TO EACH SOLENOID
PINCH
CN901
PINCH SOL ON 3
PINCH SOL.
PINCH SOL OFF 4
S-BRAKE
CN905
S-BRAKE SOL ON 27
S-BRAKE SOL.
S-BRAKE SOL OFF 28
T-BRAKE
T-BRAKE SOL ON 5
T-BRAKE SOL.
T-BRAKE SOL OFF 7
CLEANER SOL ON 25
HEAD CLEANER SOL.
6.7/9 SV LWR
6/9 SV HWR
6.7/9 SV RD
6.7/9 SV D0-15
6.7/9 SV A1-18
IC409 IDT6116SA 25SO
IC410 IDT6116SA 25SO
A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10
D0 D1 D2 D3 D4 D5 D6 D7
CE OE WE
VCC GND
SW 5V-3
C450 0.022
C451 0.022
C452 0.022
IC413 HN27C1024HCC
IC SOCKET 44PIN
*CN1413
IC SOCKET 44PIN
CN1418
SL401
R492 47k
VPP CE NC VCC PGM
A18 A17 A16 A15 A14 A13 A12 A11 A10
O15 O14 O13 O12 O11 O10 O9 O8 VSS O7 O6 O5 O4 O3 O2 O1 O0
NC OE
IC411 (2/4) SN74HC10ANS
IC412 (1/5) SN74HC00ANS
IC411 (3/4) SN74HC10ANS
IC412 (2/5) SN74HC00ANS
IC412 (4/5) SN74HC00ANS
IC411 (1/4) SN74HC10ANS
IC412 (3/5) SN74HC00ANS
A11 A12 A13 A14 A15
SV IC 7/9
PIO 7/9
GND
IC412 (5/5) SN74HC00ANS
IC411 (4/4) SN74HC10ANS
IC415 (3/3) TC74HC00AF

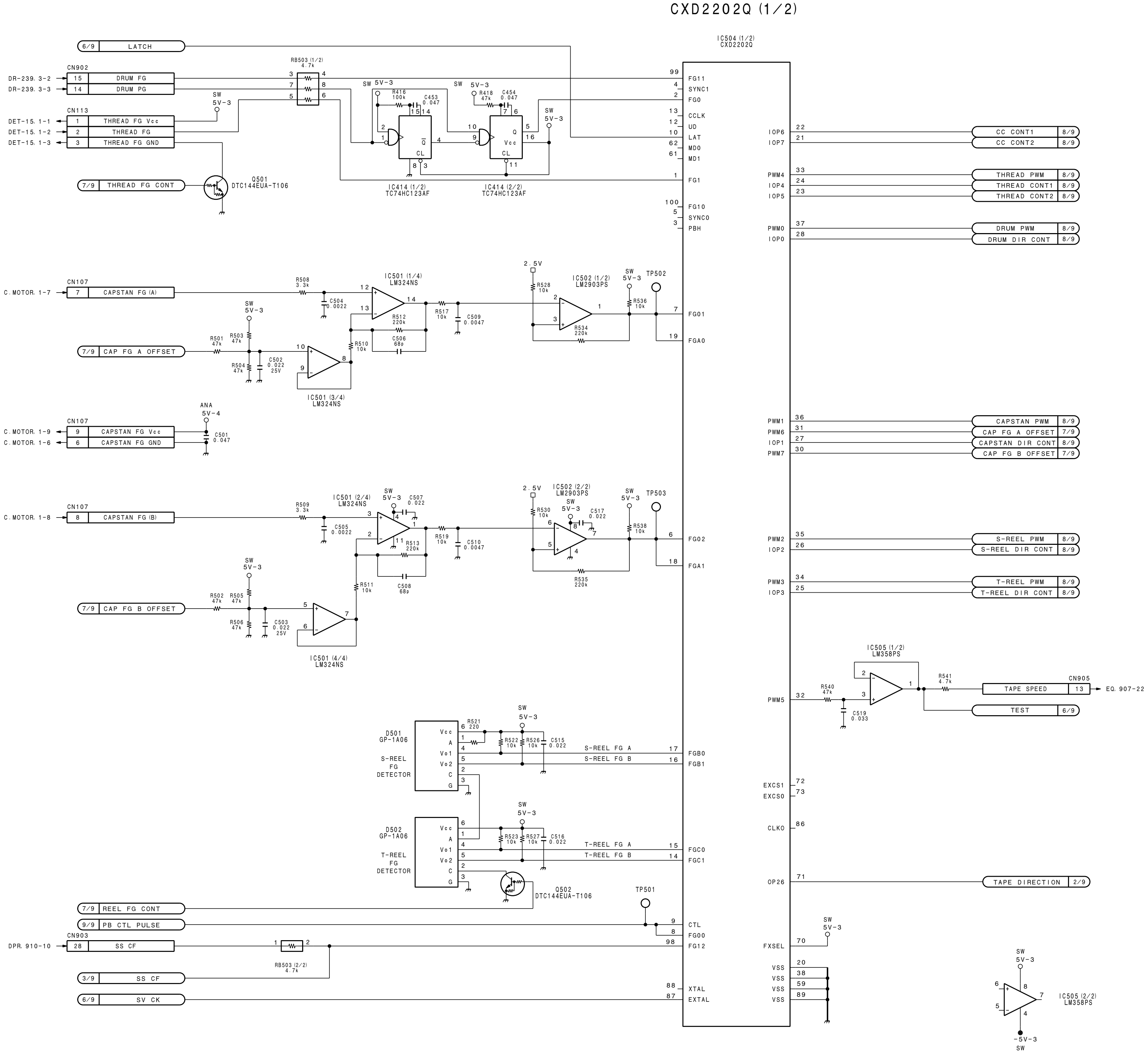
SERVO & SYSTEM CONTROL, TIMECODE
FULL ERASE & CHANNEL ERASE OSCILLATOR

SST-3 (6/9)

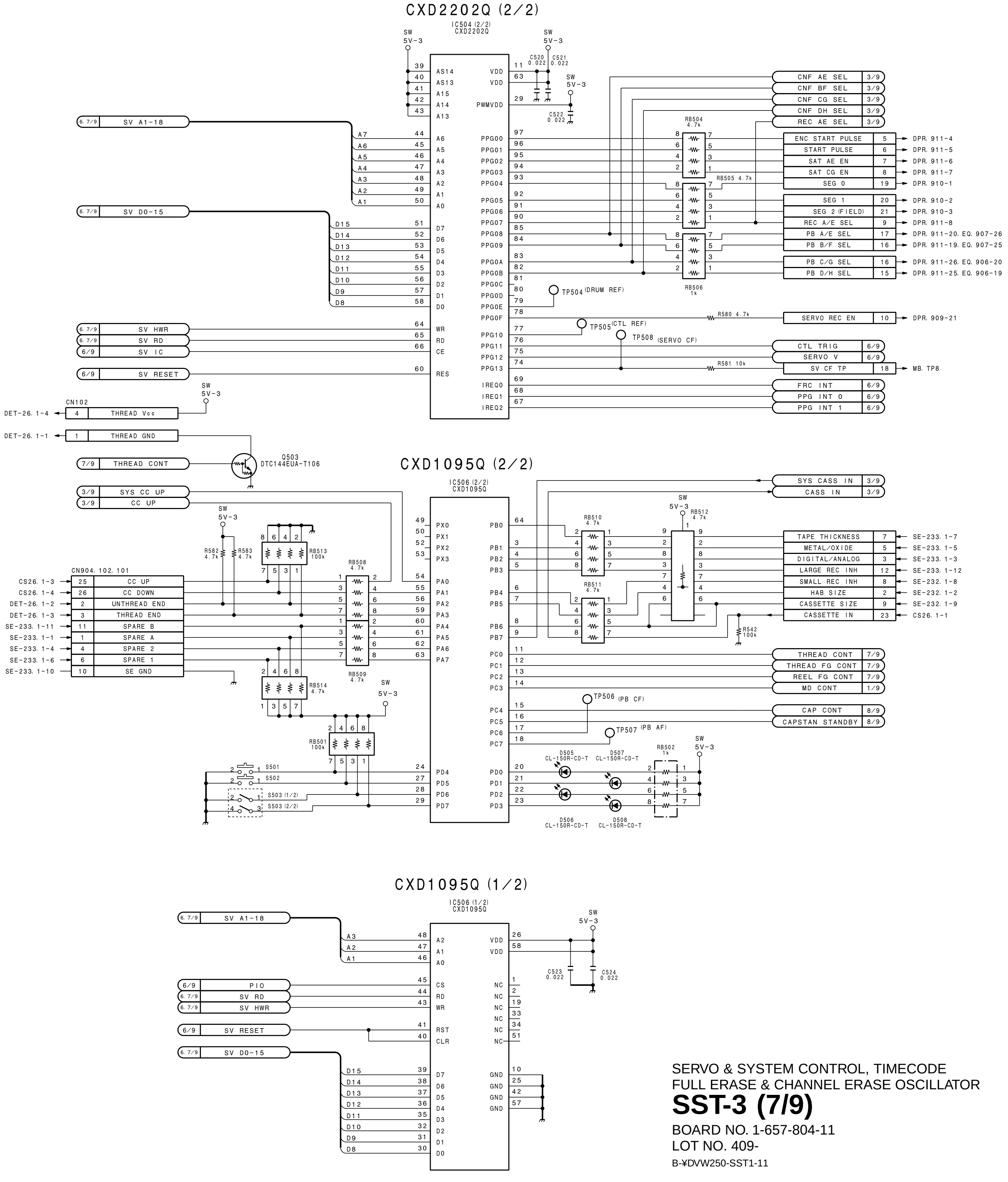
BOARD NO. 1-657-804-11
LOT NO. 409-
B-¥DVW250-SST1-11

SST-3 (7/9)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


CXD2202Q (1/2)
IC504 (1/2) CXD2202Q
6/9 LATCH
CN902
DR-239. 3-2 15 DRUM FG
DR-239. 3-3 14 DRUM PG
CN113
DET-15. 1-1 1 THREAD FG Vcc
DET-15. 1-2 2 THREAD FG
DET-15. 1-3 3 THREAD FG GND
7/9 THREAD FG CONT
Q501 DTC144EUA-T106
RB503 (1/2) 4.7k
IC414 (1/2) TC74HC123AF
IC414 (2/2) TC74HC123AF
R418 100k
C453 0.047
R416 47k
C454 0.047
SW 5V-3
FG11 SYNC1 FG0 CCLK UD LAT MD0 MD1 FG1 FG10 SYNC0 PBH
IOP6 IOP7 PWM4 IOP4 IOP5 PWM0 IOP0
CC CONT1 8/9
CC CONT2 8/9
THREAD PWM 8/9
THREAD CONT1 8/9
THREAD CONT2 8/9
DRUM PWM 8/9
DRUM DIR CONT 8/9
CN107
C.MOTOR. 1-7 7 CAPSTAN FG (A)
R508 3.3k
C504 0.0022
IC501 (1/4) LM324NS
R512 220k
C506 68p
R510 10k
R517 10k
C509 0.0047
2.5V
R528 10k
IC502 (1/2) LM2903PS
R536 10k
R534 220k
TP502
FG01 FGA0
7/9 CAP FG A OFFSET
R501 47k R503 47k R504 47k
C502 0.022 25V
IC501 (3/4) LM324NS
CN107
ANA 5V-4
C.MOTOR. 1-9 9 CAPSTAN FG Vcc
C.MOTOR. 1-6 6 CAPSTAN FG GND
C501 0.047
PWM1 PWM6 IOP1 PWM7
CAPSTAN PWM 8/9
CAP FG A OFFSET 7/9
CAPSTAN DIR CONT 8/9
CAP FG B OFFSET 7/9
CN107
C.MOTOR. 1-8 8 CAPSTAN FG (B)
R509 3.3k
C505 0.0022
IC501 (2/4) LM324NS
C507 0.022
R513 220k
C508 68p
R519 10k
C510 0.0047
IC502 (2/2) LM2903PS
R530 10k
C517 0.022
R538 10k
R535 220k
TP503
FG02 FGA1
7/9 CAP FG B OFFSET
R502 47k R505 47k R506 47k
C503 0.022 25V
R511 10k
IC501 (4/4) LM324NS
PWM2 IOP2 PWM3 IOP3
S-REEL PWM 8/9
S-REEL DIR CONT 8/9
T-REEL PWM 8/9
T-REEL DIR CONT 8/9
IC505 (1/2) LM358PS
PWM5
R540 47k
C519 0.033
R541 4.7k
CN905
TAPE SPEED 13 EQ. 907-22
TEST 6/9
D501 GP-1A06
S-REEL FG DETECTOR
R521 220
R522 10k R526 10k C515 0.022
S-REEL FG A
S-REEL FG B
FGB0 FGB1
D502 GP-1A06
T-REEL FG DETECTOR
R523 10k R527 10k C516 0.022
T-REEL FG A
T-REEL FG B
FGC0 FGC1
Vcc A Vo1 Vo2 C G
Q502 DTC144EUA-T106
EXCS1 EXCS0 CLKO OP26
TAPE DIRECTION 2/9
TP501
7/9 REEL FG CONT
9/9 PB CTL PULSE
CN903
DPR. 910-10 28 SS CF
RB503 (2/2) 4.7k
3/9 SS CF
6/9 SV CK
CTL FG00 FG12 XTAL EXTAL
FXSEL VSS VSS VSS VSS
IC505 (2/2) LM358PS
-5V-3 SW
1 2 3 4 5
A B C D E F G H

3-88


CXD2202Q (2/2)
IC504 (2/2) CXD2202Q
SV A1-18
SV D0-15
SV HWR
SV RD
SV IC
SV RESET
CN102
THREAD Vcc
THREAD GND
DET-26. 1-4
DET-26. 1-1
THREAD CONT
Q503 DTC144EUA-T106
CNF AE SEL
CNF BF SEL
CNF CG SEL
CNF DH SEL
REC AE SEL
ENC START PULSE
START PULSE
SAT AE EN
SAT CG EN
SEG 0
SEG 1
SEG 2 (FIELD)
REC A/E SEL
PB A/E SEL
PB B/F SEL
PB C/G SEL
PB D/H SEL
SERVO REC EN
CTL TRIG
SERVO V
SV CF TP
FRC INT
PPG INT 0
PPG INT 1
TP504 (DRUM REF)
TP505 (CTL REF)
TP508 (SERVO CF)
RB504 4.7k
RB505 4.7k
RB506 1k
R580 4.7k
R581 10k
DPR. 911-4
DPR. 911-5
DPR. 911-6
DPR. 911-7
DPR. 910-1
DPR. 910-2
DPR. 910-3
DPR. 911-8
DPR. 911-20. EQ. 907-26
DPR. 911-19. EQ. 907-25
DPR. 911-26. EQ. 906-20
DPR. 911-25. EQ. 906-19
DPR. 909-21
MB. TP8
CXD1095Q (2/2)
IC506 (2/2) CXD1095Q
SYS CC UP
CC UP
CN904. 102. 101
CC UP
CC DOWN
UNTHREAD END
THREAD END
SPARE B
SPARE A
SPARE 2
SPARE 1
SE GND
CS26. 1-3
CS26. 1-4
DET-26. 1-2
DET-26. 1-3
SE-233. 1-11
SE-233. 1-1
SE-233. 1-4
SE-233. 1-6
SE-233. 1-10
SYS CASS IN
CASS IN
TAPE THICKNESS
METAL/OXIDE
DIGITAL/ANALOG
LARGE REC INH
SMALL REC INH
HAB SIZE
CASSETTE SIZE
CASSETTE IN
SE-233. 1-7
SE-233. 1-5
SE-233. 1-3
SE-233. 1-12
SE-232. 1-8
SE-232. 1-2
SE-232. 1-9
CS26. 1-1
THREAD CONT
THREAD FG CONT
REEL FG CONT
MD CONT
CAP CONT
CAPSTAN STANDBY
TP506 (PB CF)
TP507 (PB AF)
RB508 4.7k
RB509 4.7k
RB510 4.7k
RB511 4.7k
RB512 4.7k
RB513 100k
RB514 4.7k
RB501 100k
RB502 1k
R582 4.7k
R583 4.7k
R542 100k
S501
S502
S503 (1/2)
S503 (2/2)
D505 CL-150R-CD-T
D506 CL-150R-CD-T
D507 CL-150R-CD-T
D508 CL-150R-CD-T
SW 5V-3
CXD1095Q (1/2)
IC506 (1/2) CXD1095Q
PIO
SV RD
SV HWR
SV RESET
SV D0-15
C523 0.022
C524 0.022
C520 0.022
C521 0.022
C522 0.022

SERVO & SYSTEM CONTROL, TIMECODE
FULL ERASE & CHANNEL ERASE OSCILLATOR

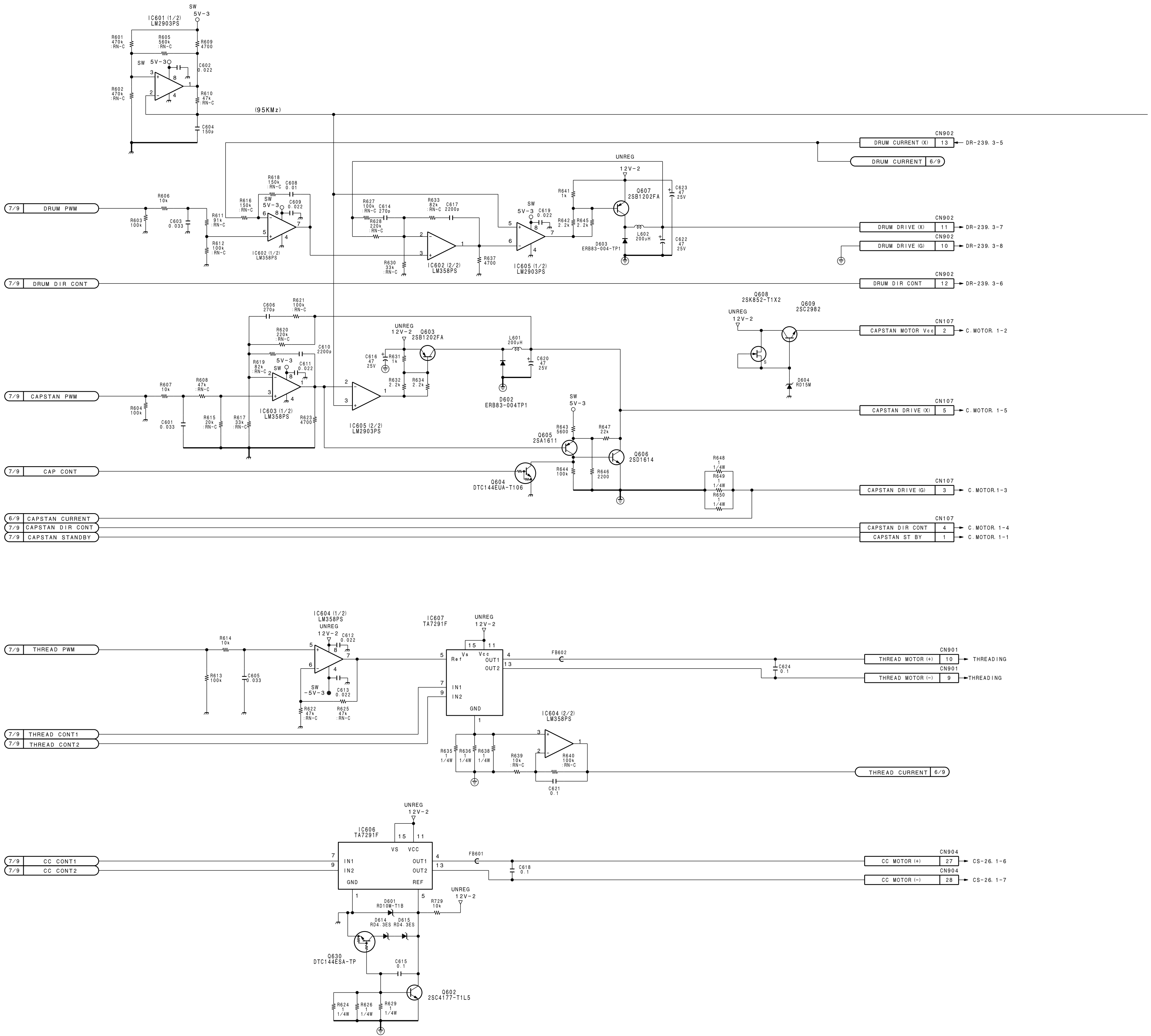
SST-3 (7/9)

BOARD NO. 1-657-804-11
LOT NO. 409-
B-¥DVW250-SST1-11

SST-3 (8/9)

SST-3 (8/9)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)


1
2
3
4
5
IC601 (1/2) LM2903PS
(95KMz)
DRUM PWM
DRUM DIR CONT
IC602 (1/2) LM358PS
IC602 (2/2) LM358PS
IC605 (1/2) LM2903PS
Q607 2SB1202FA
D603 ERB83-004-TP1
L602 200μH
UNREG 12V-2
CN902 DRUM CURRENT (X) 13 DR-239. 3-5
DRUM CURRENT 6/9
CN902 DRUM DRIVE (X) 11 DR-239. 3-7
CN902 DRUM DRIVE (G) 10 DR-239. 3-8
CN902 DRUM DIR CONT 12 DR-239. 3-6
CAPSTAN PWM
IC603 (1/2) LM358PS
IC605 (2/2) LM2903PS
Q603 2SB1202FA
D602 ERB83-004TP1
L601 200μH
Q608 2SK852-T1X2
Q609 2SC2982
D604 RD15M
CN107 CAPSTAN MOTOR Vcc 2 C.MOTOR. 1-2
CN107 CAPSTAN DRIVE (X) 5 C.MOTOR. 1-5
Q605 2SA1611
Q606 2SD1614
CAP CONT
Q604 DTC144EUA-T106
CN107 CAPSTAN DRIVE (G) 3 C.MOTOR.1-3
CAPSTAN CURRENT
CAPSTAN DIR CONT
CAPSTAN STANDBY
CN107 CAPSTAN DIR CONT 4 C.MOTOR. 1-4
CAPSTAN ST BY 1 C.MOTOR. 1-1
THREAD PWM
IC604 (1/2) LM358PS
IC607 TA7291F
FB602
CN901 THREAD MOTOR (+) 10 THREADING
CN901 THREAD MOTOR (−) 9 THREADING
THREAD CONT1
THREAD CONT2
IC604 (2/2) LM358PS
THREAD CURRENT 6/9
IC606 TA7291F
CC CONT1
CC CONT2
FB601
CN904 CC MOTOR (+) 27 CS-26. 1-6
CN904 CC MOTOR (−) 28 CS-26. 1-7
D601 RD10M-T1B
D614 RD4.3ES
D615 RD4.3ES
Q630 DTC144ESA-TP
Q602 2SC4177-T1L5
A
B
C
D
E
F
G
H

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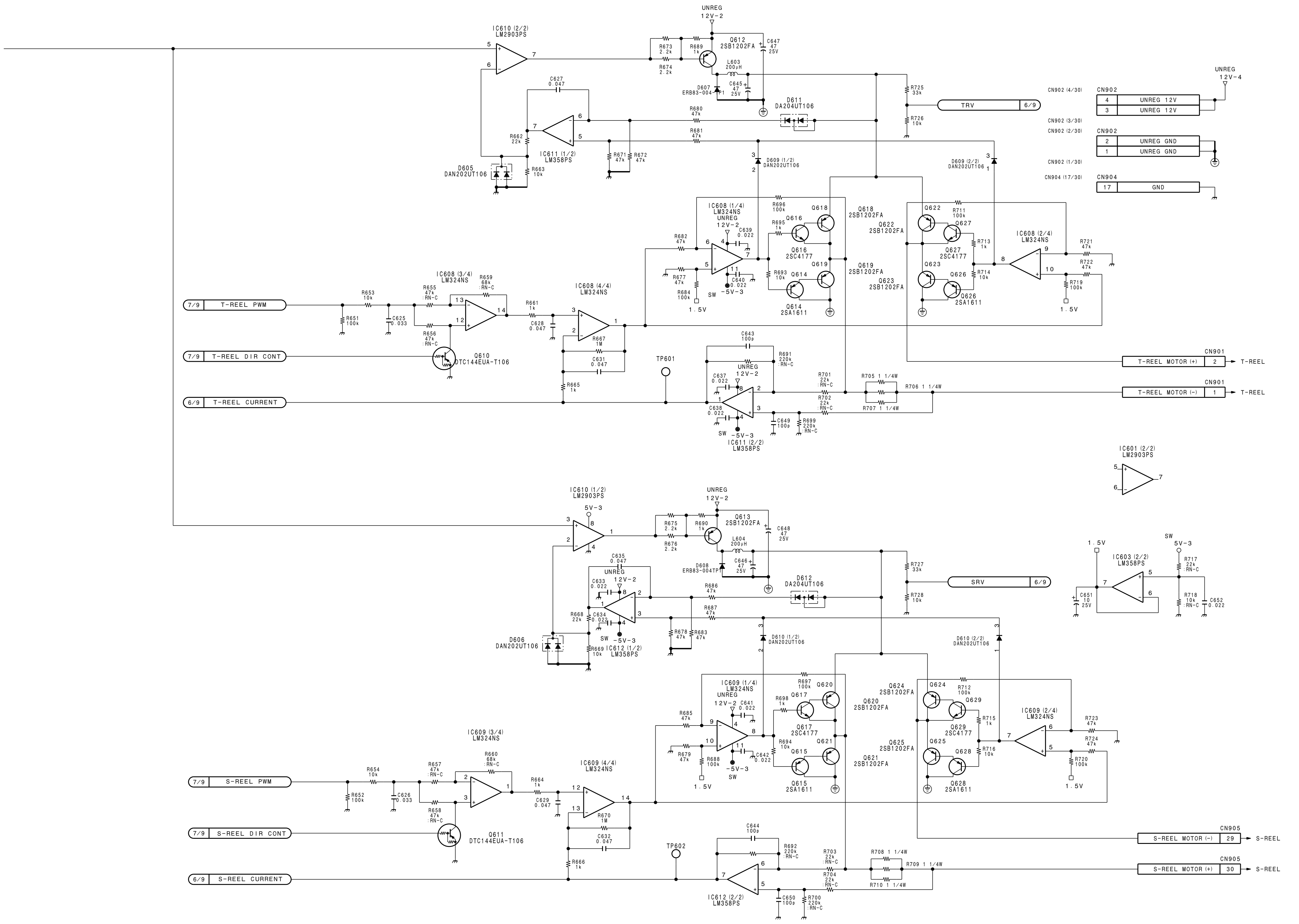

IC610 (2/2) LM2903PS
UNREG 12V-2
Q612 2SB1202FA
R673 2.2k
R674 2.2k
R689 1k
C647 47 25V
L603 200μH
D607 ERB83-004
C645 47 25V
C627 0.047
D611 DA204UT106
R680 47k
R681 47k
R662 22k
IC611 (1/2) LM358PS
R671 47k
R672 47k
R663 10k
D605 DAN202UT106
D609 (1/2) DAN202UT106
D609 (2/2) DAN202UT106
R725 33k
R726 10k
TRV 6/9
UNREG 12V-4
CN902 (4/30)
CN902 (3/30)
CN902 (2/30)
CN902 (1/30)
CN904 (17/30)
CN902
4 UNREG 12V
3 UNREG 12V
2 UNREG GND
1 UNREG GND
CN904
17 GND
IC608 (1/4) LM324NS
R682 47k
R677 47k
R684 100k
C639 0.022
C640 0.022
-5V-3
SW
1.5V
R696 100k
R695 1k
R693 10k
Q616 2SC4177
Q618 2SB1202FA
Q619 2SB1202FA
Q614 2SA1611
Q622 2SB1202FA
Q623 2SB1202FA
Q627 2SC4177
Q626 2SA1611
R711 100k
R713 1k
R714 10k
IC608 (2/4) LM324NS
R721 47k
R722 47k
R719 100k
IC608 (3/4) LM324NS
IC608 (4/4) LM324NS
R653 10k
R651 100k
C625 0.033
R655 47k
R656 47k
R659 68k
R661 1k
C628 0.047
R667 1M
C631 0.047
R665 1k
7/9 T-REEL PWM
7/9 T-REEL DIR CONT
6/9 T-REEL CURRENT
Q610 DTC144EUA-T106
TP601
C643 100p
R691 220k
C637 0.022
C638 0.022
IC611 (2/2) LM358PS
R701 22k
R702 22k
R705 1 1/4W
R706 1 1/4W
R707 1 1/4W
C649 100p
R699 220k
CN901
T-REEL MOTOR (+) 2 T-REEL
T-REEL MOTOR (-) 1 T-REEL
IC601 (2/2) LM2903PS
IC610 (1/2) LM2903PS
5V-3
Q613 2SB1202FA
R675 2.2k
R676 2.2k
R690 1k
C648 47 25V
L604 200μH
D608 ERB83-004TP
C646 47 25V
C635 0.047
C633 0.022
C634 0.022
R668 22k
R669 10k
IC612 (1/2) LM358PS
D606 DAN202UT106
R686 47k
R687 47k
R678 47k
R683 47k
D612 DA204UT106
D610 (1/2) DAN202UT106
D610 (2/2) DAN202UT106
R727 33k
R728 10k
SRV 6/9
IC603 (2/2) LM358PS
C651 10 25V
R717 22k
R718 10k
C652 0.022
IC609 (1/4) LM324NS
R685 47k
R679 47k
R688 100k
C641 0.022
C642 0.022
R697 100k
R698 1k
R694 10k
Q617 2SC4177
Q620 2SB1202FA
Q621 2SB1202FA
Q615 2SA1611
Q624 2SB1202FA
Q625 2SB1202FA
Q629 2SC4177
Q628 2SA1611
R712 100k
R715 1k
R716 10k
IC609 (2/4) LM324NS
R723 47k
R724 47k
R720 100k
IC609 (3/4) LM324NS
IC609 (4/4) LM324NS
R654 10k
R652 100k
C626 0.033
R657 47k
R658 47k
R660 68k
R664 1k
C629 0.047
R670 1M
C632 0.047
R666 1k
7/9 S-REEL PWM
7/9 S-REEL DIR CONT
6/9 S-REEL CURRENT
Q611 DTC144EUA-T106
TP602
C644 100p
R692 220k
IC612 (2/2) LM358PS
C650 100p
R700 220k
R703 22k
R704 22k
R708 1 1/4W
R709 1 1/4W
R710 1 1/4W
CN905
S-REEL MOTOR (-) 29 S-REEL
S-REEL MOTOR (+) 30 S-REEL

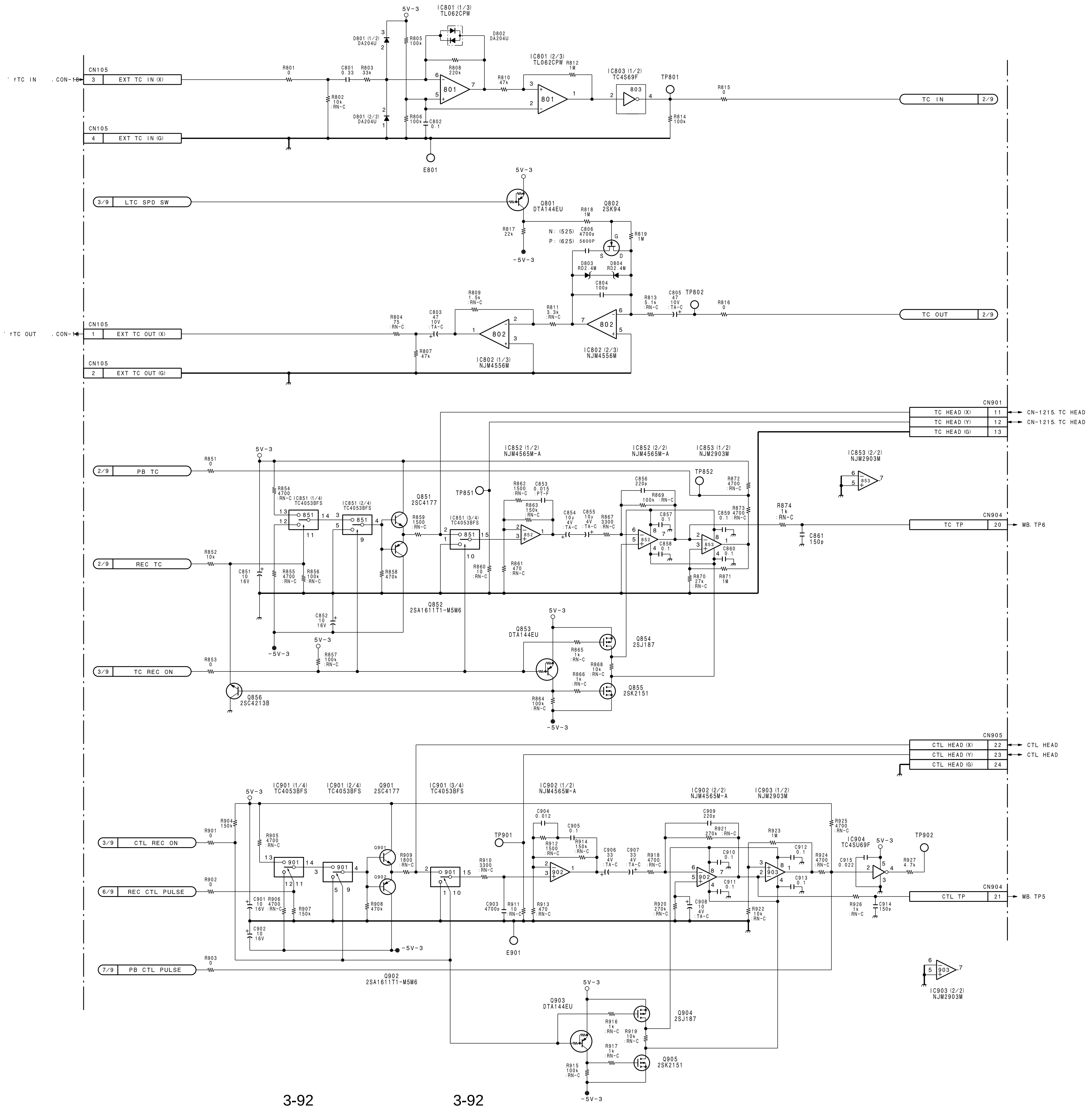
SERVO & SYSTEM CONTROL, TIMECODE
FULL ERASE & CHANNEL ERASE OSCILLATOR

SST-3 (8/9)

BOARD NO. 1-657-804-11
LOT NO. 409-
B-¥DVW250-SST1-11

SST-3 (9/9)

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)



1
2
3
4
5
TC IN
CON-18
CN105
EXT TC IN (X)
EXT TC IN (G)
5V-3
IC801 (1/3) TL062CPW
D801 (1/2) DA204U
D801 (2/2) DA204U
D802 DA204U
R801 0
C801 0.33
R803 33k
R802 10k :RN-C
R805 100k
R806 100k
C802 0.1
R808 220k
R810 47k
IC801 (2/3) TL062CPW
R812 1M
IC803 (1/2) TC4S69F
TP801
R814 100k
R815 0
TC IN
2/9
E801
LTC SPD SW
3/9
Q801 DTA144EU
Q802 2SK94
R817 22k
R818 1M
R819 1M
N: (525) C806 4700p
P: (625) 5600P
D803 RD2.4M
D804 RD2.4M
C804 100p
-5V-3
TC OUT
CON-18
EXT TC OUT (X)
EXT TC OUT (G)
R804 75 :RN-C
C803 47 10V :TA-C
R807 47k
R809 1.5k :RN-C
R811 3.3k :RN-C
IC802 (1/3) NJM4556M
IC802 (2/3) NJM4556M
R813 5.1k :RN-C
C805 47 10V :TA-C
TP802
R816 0
TC OUT
2/9
CN901
TC HEAD (X) 11
TC HEAD (Y) 12
TC HEAD (G) 13
CN-1215, TC HEAD
PB TC
2/9
R851 0
IC851 (1/4) TC4053BFS
IC851 (2/4) TC4053BFS
IC851 (3/4) TC4053BFS
R854 4700 :RN-C
Q851 2SC4177
R859 1500 :RN-C
TP851
IC852 (1/2) NJM4565M-A
IC852 (2/2) NJM4565M-A
IC853 (1/2) NJM2903M
IC853 (2/2) NJM2903M
R862 1500 :RN-C
C853 0.015 :PT-F
R863 150k :RN-C
C854 10µ 4V :TA-C
C855 10µ 4V :TA-C
R867 3300 :RN-C
C856 220p
R869 100k :RN-C
C857 0.1
C858 0.1
TP852
R872 4700 :RN-C
R873 4700 :RN-C
C859 0.1
C860 0.1
R874 1k :RN-C
C861 150p
CN904
TC TP 20
MB, TP6
REC TC
2/9
R852 10k
C851 10 16V
R855 4700 :RN-C
R856 100k :RN-C
R858 470k
R860 10 :RN-C
R861 470 :RN-C
R870 27k :RN-C
R871 1M
Q852 2SA1611T1-M5M6
C852 10 16V
5V-3
R857 100k :RN-C
TC REC ON
3/9
R853 0
Q853 DTA144EU
Q854 2SJ187
Q855 2SK2151
Q856 2SC4213B
R864 100k :RN-C
R865 1k :RN-C
R866 1k :RN-C
R868 10k :RN-C
CN905
CTL HEAD (X) 22
CTL HEAD (Y) 23
CTL HEAD (G) 24
CTL HEAD
IC901 (1/4) TC4053BFS
IC901 (2/4) TC4053BFS
Q901 2SC4177
IC901 (3/4) TC4053BFS
IC902 (1/2) NJM4565M-A
IC902 (2/2) NJM4565M-A
IC903 (1/2) NJM2903M
CTL REC ON
3/9
R901 0
R904 150k
R905 4700 :RN-C
R909 1800 :RN-C
TP901
C904 0.012
C905 0.1
R912 1500 :RN-C
R914 150k :RN-C
C906 33 4V :TA-C
C907 33 4V :TA-C
R918 4700 :RN-C
C909 220p
R921 270k :RN-C
C910 0.1
C911 0.1
R923 1M
C912 0.1
C913 0.1
R924 4700 :RN-C
R925 4700 :RN-C
IC904 TC4SU69F
C915 0.022
R927 4.7k
TP902
CN904
CTL TP 21
MB, TP5
REC CTL PULSE
6/9
R902 0
C901 10 16V
R906 4700 :RN-C
R907 150k
R908 470k
C902 10 16V
R910 3300 :RN-C
C903 4700p
R911 10 :RN-C
R913 470 :RN-C
R920 270k :RN-C
C908 10 4V :TA-C
R922 10k :RN-C
R926 1k :RN-C
C914 150p
E901
PB CTL PULSE
7/9
R903 0
Q902 2SA1611T1-M5M6
IC903 (2/2) NJM2903M
Q903 DTA144EU
Q904 2SJ187
Q905 2SK2151
R915 100k :RN-C
R916 1k :RN-C
R917 1k :RN-C
R919 10k :RN-C

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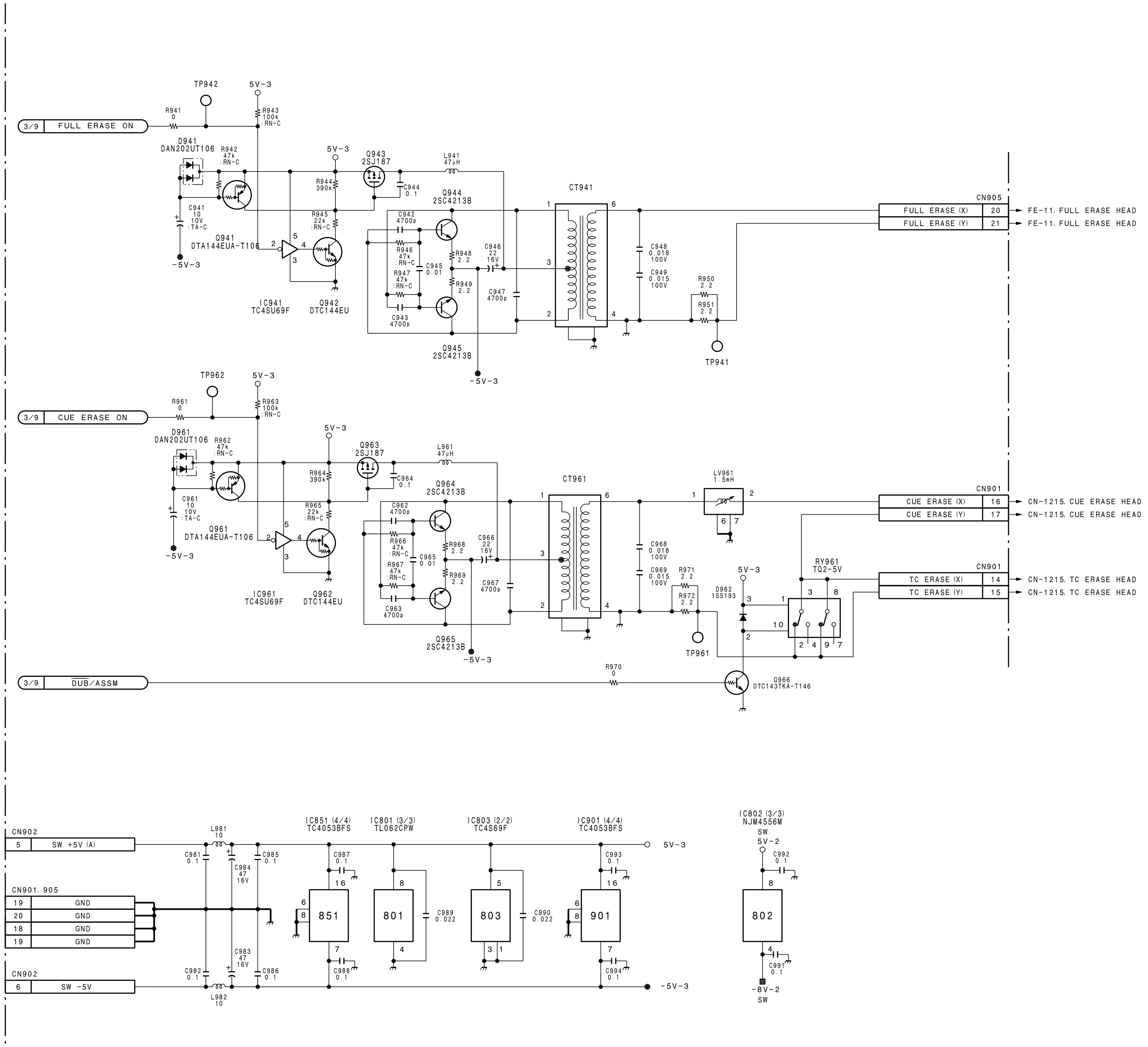

3/9 FULL ERASE ON
TP942
5V-3
R941 0
R943 100k :RN-C
D941 DAN202UT106
R942 47k :RN-C
C941 10 10V :TA-C
Q941 DTA144EUA-T106
-5V-3
5V-3
Q943 2SJ187
L941 47μH
R944 390k
C944 0.1
Q944 2SC4213B
R945 22k :RN-C
C942 4700p
R946 47k :RN-C
R947 47k :RN-C
C945 0.01
R948 2.2
R949 2.2
C946 22 16V
C947 4700p
C943 4700p
Q945 2SC4213B
IC941 TC4SU69F
Q942 DTC144EU
CT941
C948 0.018 100V
C949 0.015 100V
R950 2.2
R951 2.2
TP941
CN905
FULL ERASE (X) 20
FULL ERASE (Y) 21
FE-11. FULL ERASE HEAD
FE-11. FULL ERASE HEAD
3/9 CUE ERASE ON
TP962
5V-3
R961 0
R963 100k :RN-C
D961 DAN202UT106
R962 47k :RN-C
C961 10 10V :TA-C
Q961 DTA144EUA-T106
-5V-3
5V-3
Q963 2SJ187
L961 47μH
R964 390k
C964 0.1
Q964 2SC4213B
R965 22k :RN-C
C962 4700p
R966 47k :RN-C
R967 47k :RN-C
C965 0.01
R968 2.2
R969 2.2
C966 22 16V
C967 4700p
C963 4700p
Q965 2SC4213B
-5V-3
IC961 TC4SU69F
Q962 DTC144EU
CT961
C968 0.018 100V
C969 0.015 100V
R971 2.2
R972 2.2
TP961
LV961 1.5mH
5V-3
D962 1SS193
RY961 TQ2-5V
CN901
CUE ERASE (X) 16
CUE ERASE (Y) 17
CN-1215. CUE ERASE HEAD
CN-1215. CUE ERASE HEAD
CN901
TC ERASE (X) 14
TC ERASE (Y) 15
CN-1215. TC ERASE HEAD
CN-1215. TC ERASE HEAD
3/9 DUB/ASSM
R970 0
Q966 DTC143TKA-T146
CN902
5 SW +5V (A)
L981 10
C981 0.1
C984 47 16V
C985 0.1
CN901, 905
19 GND
20 GND
18 GND
19 GND
CN902
6 SW -5V
C982 0.1
C983 47 16V
C986 0.1
L982 10
IC851 (4/4) TC4053BFS
IC801 (3/3) TL062CPW
IC803 (2/2) TC4S69F
IC901 (4/4) TC4053BFS
5V-3
-5V-3
C987 0.1
C988 0.1
C989 0.022
C990 0.022
C993 0.1
C994 0.1
851
801
803
901
IC802 (3/3) NJM4556M
SW 5V-2
C992 0.1
802
C991 0.1
-8V-2 SW

SERVO & SYSTEM CONTROL, TIMECODE
FULL ERASE & CHANNEL ERASE OSCILLATOR

SST-3 (9/9)

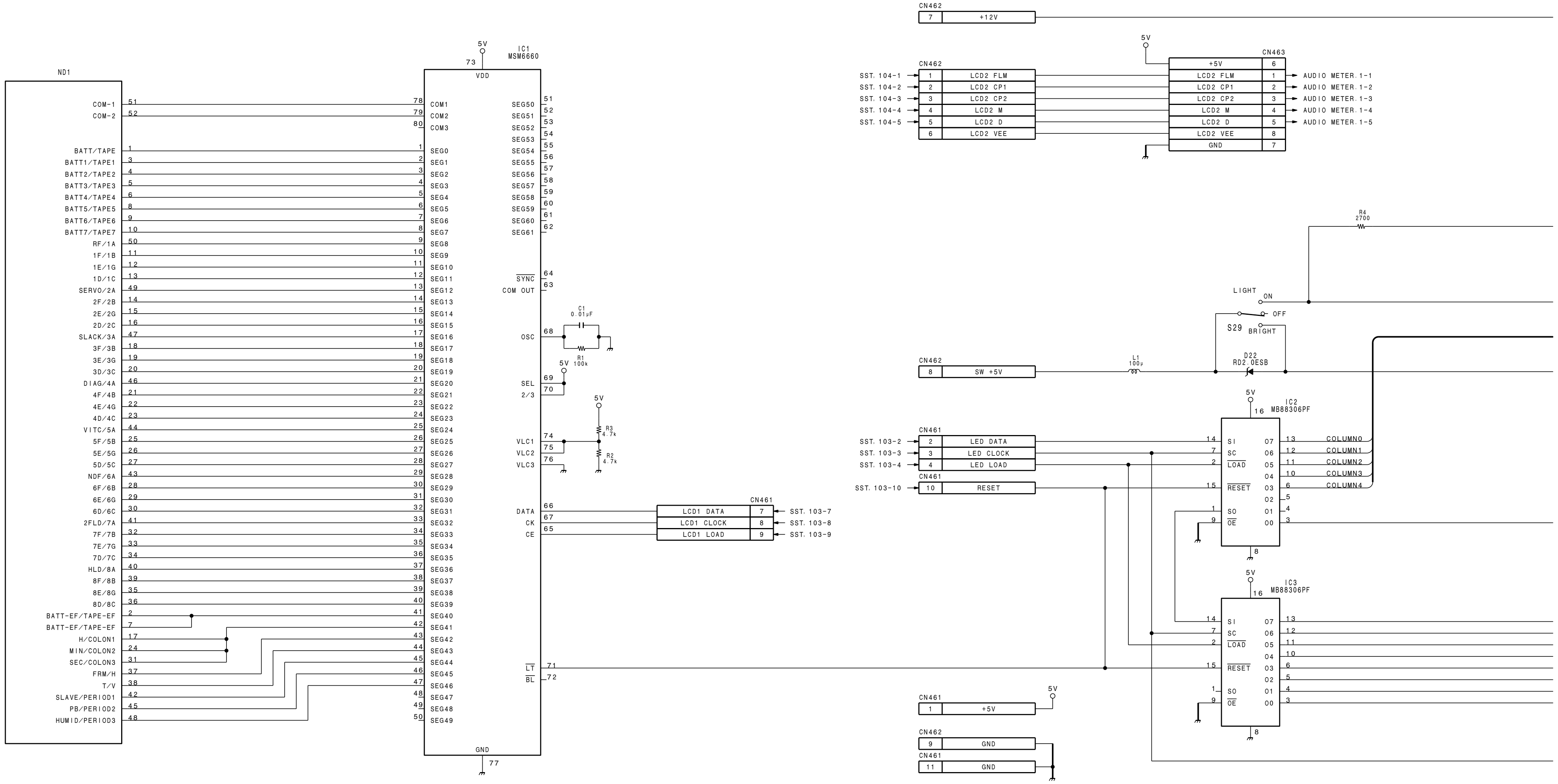
BOARD NO. 1-657-804-11
LOT NO. 409-
B-¥DVW250-SST1-11

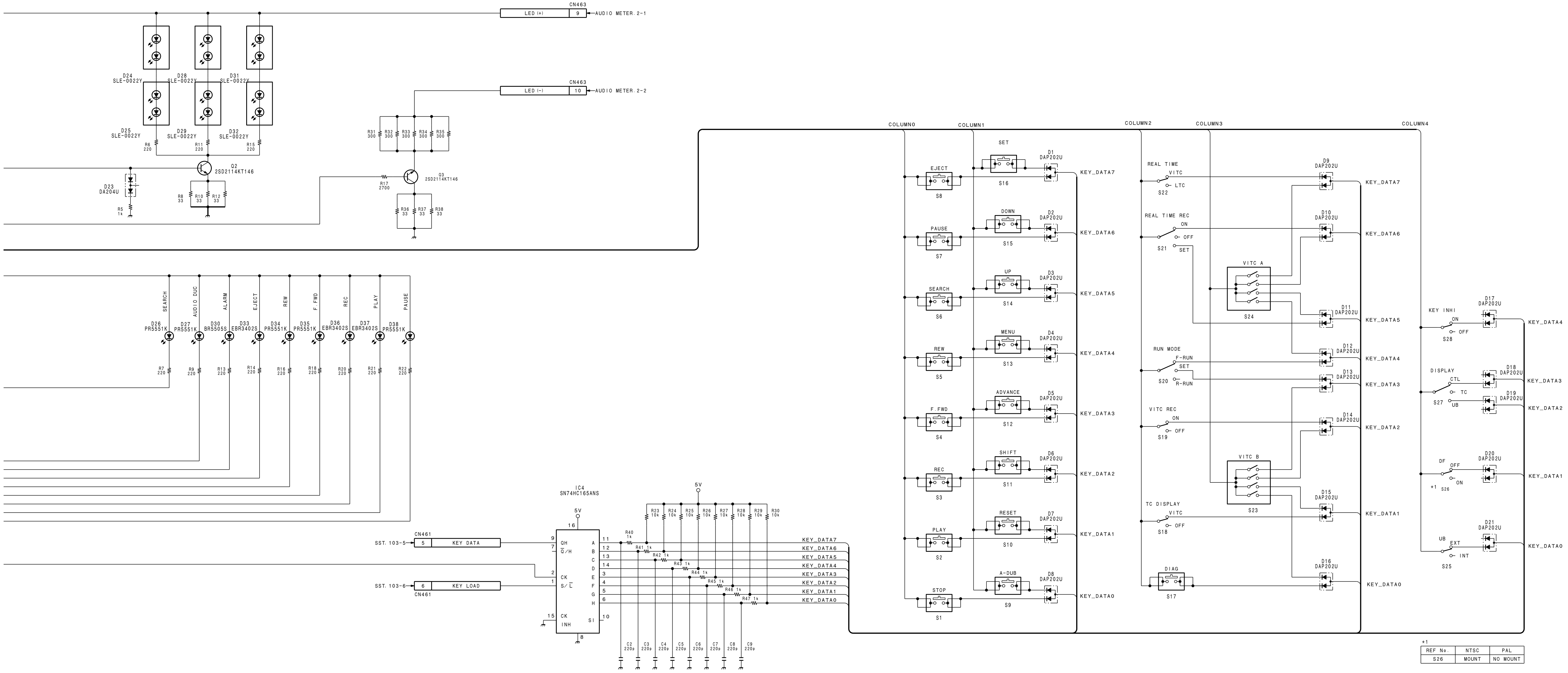
DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

KY-315 (1-657-807-11)

CN461	∗A3
CN462	∗A3
CN463	∗D1
D1	∗E4
D2	∗D3
D3	∗E4
D4	∗E4
D5	∗C4
D6	∗D2
D7	∗C3
D8	∗C3
D9	∗D4
D10	∗C4
D11	∗C4
D12	∗B4
D13	∗B4
D14	∗B4
D15	∗B4
D16	∗D4
D17	∗D3
D18	∗D1
D19	∗D2
D20	∗D4
D21	∗D4
D22	E4
D23	∗E4
D24	A1
D25	B1
D26	C3
D27	C3
D28	B1
D29	C1
D30	D1
D31	C1
D32	C1
D33	A1
D34	A3
D35	B3
D36	D1
D37	C1
D38	D3
IC1	∗C1
IC2	∗B2
IC3	∗C2
IC4	∗B2
L1	A4
ND1	C1
Q2	∗E4
Q3	∗C4
S1	B2
S2	C2
S3	D2
S4	B3
S5	A3
S6	C3
S7	D3
S8	A2
S9	C3
S10	D1
S11	C4
S12	C4
S13	E4
S14	E4
S15	E4
S16	E4
S17	D4
S18	B4
S19	B4
S20	B4
S21	C4
S22	D4
S23	A4
S24	A4
S25	D4
S26	D4
S27	D1
S28	D3
S29	E4

∗ : Soldering Side


ND1
IC1
MSM6660
5V
VDD
GND
C1
0.01μF
R1
100k
R2
4.7k
R3
4.7k
CN461
LCD1 DATA
LCD1 CLOCK
LCD1 LOAD
SST. 103-7
SST. 103-8
SST. 103-9
CN462
+12V
LCD2 FLM
LCD2 CP1
LCD2 CP2
LCD2 M
LCD2 D
LCD2 VEE
SST. 104-1
SST. 104-2
SST. 104-3
SST. 104-4
SST. 104-5
CN463
AUDIO METER.1-1
AUDIO METER.1-2
AUDIO METER.1-3
AUDIO METER.1-4
AUDIO METER.1-5
R4
2700
LIGHT
ON
OFF
BRIGHT
S29
SW +5V
L1
100μ
D22
RD2.0ESB
IC2
MB88306PF
IC3
MB88306PF
LED DATA
LED CLOCK
LED LOAD
RESET
SST. 103-2
SST. 103-3
SST. 103-4
SST. 103-10
COLUMN0
COLUMN1
COLUMN2
COLUMN3
COLUMN4
+5V
GND


CN463
LED (+) 9 AUDIO METER 2-1
LED (−) 10 AUDIO METER 2-2
D24 SLE-0022Y
D28 SLE-0022Y
D31 SLE-0022Y
D25 SLE-0022Y
D29 SLE-0022Y
D32 SLE-0022Y
R6 220
R11 220
R15 220
Q2 2SD2114KT146
D23 DA204U
R5 1k
R8 33
R10 33
R12 33
R31 300
R32 300
R33 300
R34 300
R35 300
R17 2700
Q3 2SD2114KT146
R36 33
R37 33
R38 33
SEARCH
AUDIO DUC
ALARM
EJECT
REW
F FWD
REC
PLAY
PAUSE
D26 PR5551K
D27 PR5551K
D30 BR5505S
D33 EBR3402S
D34 PR5551K
D35 PR5551K
D36 EBR3402S
D37 EBR3402S
D38 PR5551K
R7 220
R9 220
R13 220
R14 220
R16 220
R18 220
R20 220
R21 220
R22 220
IC4 SN74HC165ANS
5V
CN461
SST. 103-5 5 KEY DATA
SST. 103-6 6 KEY LOAD
QH
Q/H
CK
S/L
CK INH
SI
R40 1k
R41 1k
R42 1k
R43 1k
R44 1k
R45 1k
R46 1k
R47 1k
R23 10k
R24 10k
R25 10k
R26 10k
R27 10k
R28 10k
R29 10k
R30 10k
C2 220p
C3 220p
C4 220p
C5 220p
C6 220p
C7 220p
C8 220p
C9 220p
KEY_DATA7
KEY_DATA6
KEY_DATA5
KEY_DATA4
KEY_DATA3
KEY_DATA2
KEY_DATA1
KEY_DATA0
COLUMN0
COLUMN1
COLUMN2
COLUMN3
COLUMN4
EJECT S8
PAUSE S7
SEARCH S6
REW S5
F FWD S4
REC S3
PLAY S2
STOP S1
SET S16
DOWN S15
UP S14
MENU S13
ADVANCE S12
SHIFT S11
RESET S10
A-DUB S9
D1 DAP202U
D2 DAP202U
D3 DAP202U
D4 DAP202U
D5 DAP202U
D6 DAP202U
D7 DAP202U
D8 DAP202U
REAL TIME VITC LTC S22
REAL TIME REC ON OFF SET S21
VITC A S24
VITC B S23
RUN MODE F-RUN SET R-RUN S20
VITC REC ON OFF S19
TC DISPLAY VITC OFF S18
DIAG S17
D9 DAP202U
D10 DAP202U
D11 DAP202U
D12 DAP202U
D13 DAP202U
D14 DAP202U
D15 DAP202U
D16 DAP202U
KEY INHI ON OFF S28
DISPLAY CTL TC UB S27
DF OFF ON *1 S26
UB EXT INT S25
D17 DAP202U
D18 DAP202U
D19 DAP202U
D20 DAP202U
D21 DAP202U

*1

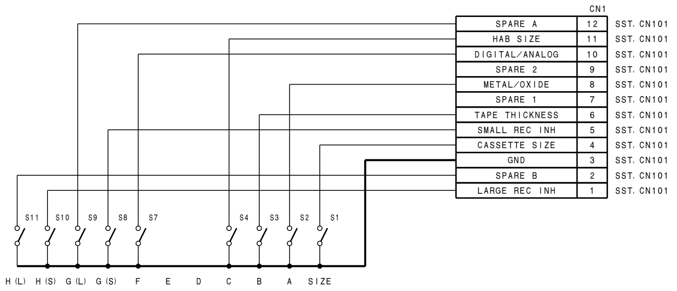
REF No	NTSC	PAL
S26	MOUNT	NO MOUNT

PANEL SWITCHES
KY-315
BOARD NO. 1-657-807-11
LOT NO. 409-
B-¥DVW250-KY315-11

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

SE-233 (1-657-800-11)

CN1	A1
S1	A1
S2	A1
S3	A1
S4	A1
S7	A1
S8	A1
S9	A1
S10	A1
S11	A1


CN1
SPARE A 12 SST, CN101
HAB SIZE 11 SST, CN101
DIGITAL/ANALOG 10 SST, CN101
SPARE 2 9 SST, CN101
METAL/OXIDE 8 SST, CN101
SPARE 1 7 SST, CN101
TAPE THICKNESS 6 SST, CN101
SMALL REC INH 5 SST, CN101
CASSETTE SIZE 4 SST, CN101
GND 3 SST, CN101
SPARE B 2 SST, CN101
LARGE REC INH 1 SST, CN101
S11
S10
S9
S8
S7
S4
S3
S2
S1
H (L)
H (S)
G (L)
G (S)
F
E
D
C
B
A
SIZE

SENSOR (CASSETTE CODING)

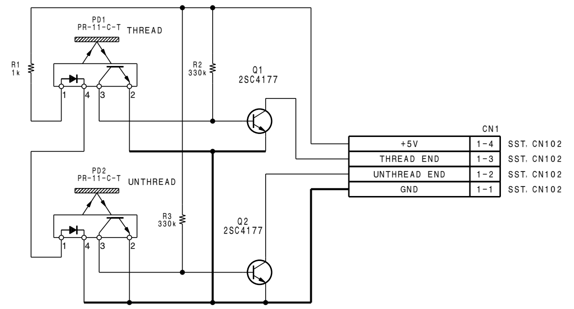
SE-233

BOARD NO. 1-657-800-11
LOT NO. 409-
B-¥DVW250-SE233-11

DET-26 (1-657-801-11,-12)

CN1	＊A1
PD1	A1
PD2	A1
Q1	A1
Q2	A1

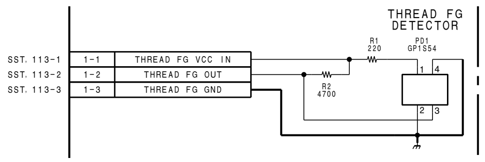
＊: Soldering Side


PD1
PR-11-C-T
THREAD
R1
1k
1
4
3
2
R2
330k
Q1
2SC4177
PD2
PR-11-C-T
UNTHREAD
R3
330k
Q2
2SC4177
CN1
+5V 1-4 SST, CN102
THREAD END 1-3 SST, CN102
UNTHREAD END 1-2 SST, CN102
GND 1-1 SST, CN102

SENSOR (THREAD/UNTHREAD)

DET-26

BOARD NO. 1-657-801-11,-12
LOT NO. 409-
B-¥DVW250-DET26-11


THREAD FG
DETECTOR
SST, 113-1 1-1 THREAD FG VCC IN
SST, 113-2 1-2 THREAD FG OUT
SST, 113-3 1-3 THREAD FG GND
R1
220
PD1
GP1S54
R2
4700
1
4
2
3

CASSETTE IN DETECTOR

DET-15

BOARD NO. 1-638-705-11
LOT NO. 409-
B-¥DVW250-DET15-S/M

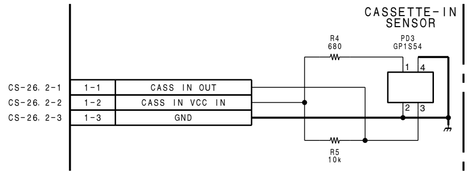
CS-25/26, TR-57

TR-57 (1-638-710-11)

PD1 ＊A1

＊: Soldering Side

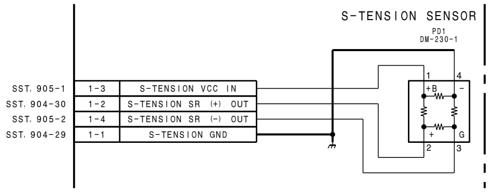
1
2
3
4
5


CASSETTE-IN SENSOR
R4
680
PD3
GP1S54
CS-26, 2-1
CS-26, 2-2
CS-26, 2-3
1-1
1-2
1-3
CASS IN OUT
CASS IN VCC IN
GND
1
4
2
3
R5
10k

CASSETTE UP/DOWN DETECTOR

CS-25

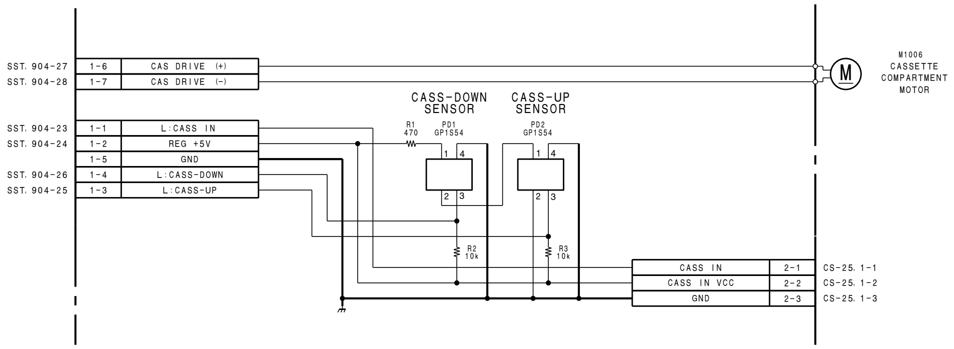
BOARD NO. 1-638-701-12
LOT NO. 409-
B-¥DVW250-CS25-S/M


S-TENSION SENSOR
PD1
DM-230-1
SST, 905-1
SST, 904-30
SST, 905-2
SST, 904-29
1-3
1-2
1-4
1-1
S-TENSION VCC IN
S-TENSION SR (+) OUT
S-TENSION SR (-) OUT
S-TENSION GND
1
4
+B
-
+
G
2
3

S-TENSION DETECTOR

TR-57

BOARD NO. 1-638-710-11
LOT NO. 409-
B-¥DVW250-TR57-S/M


SST, 904-27
SST, 904-28
1-6
1-7
CAS DRIVE (+)
CAS DRIVE (-)
M
M1006
CASSETTE
COMPARTMENT
MOTOR
CASS-DOWN SENSOR
CASS-UP SENSOR
R1
470
PD1
GP1S54
PD2
GP1S54
SST, 904-23
SST, 904-24
SST, 904-26
SST, 904-25
1-1
1-2
1-5
1-4
1-3
L:CASS IN
REG +5V
GND
L:CASS-DOWN
L:CASS-UP
1
4
2
3
R2
10k
R3
10k
CASS IN
CASS IN VCC
GND
2-1
2-2
2-3
CS-25, 1-1
CS-25, 1-2
CS-25, 1-3

CASSETTE UP/DOWN DETECTOR

CS-26

BOARD NO. 1-638-702-11
LOT NO. 409-
B-¥DVW250-CS26-S/M

3-97

A B C D E F G H

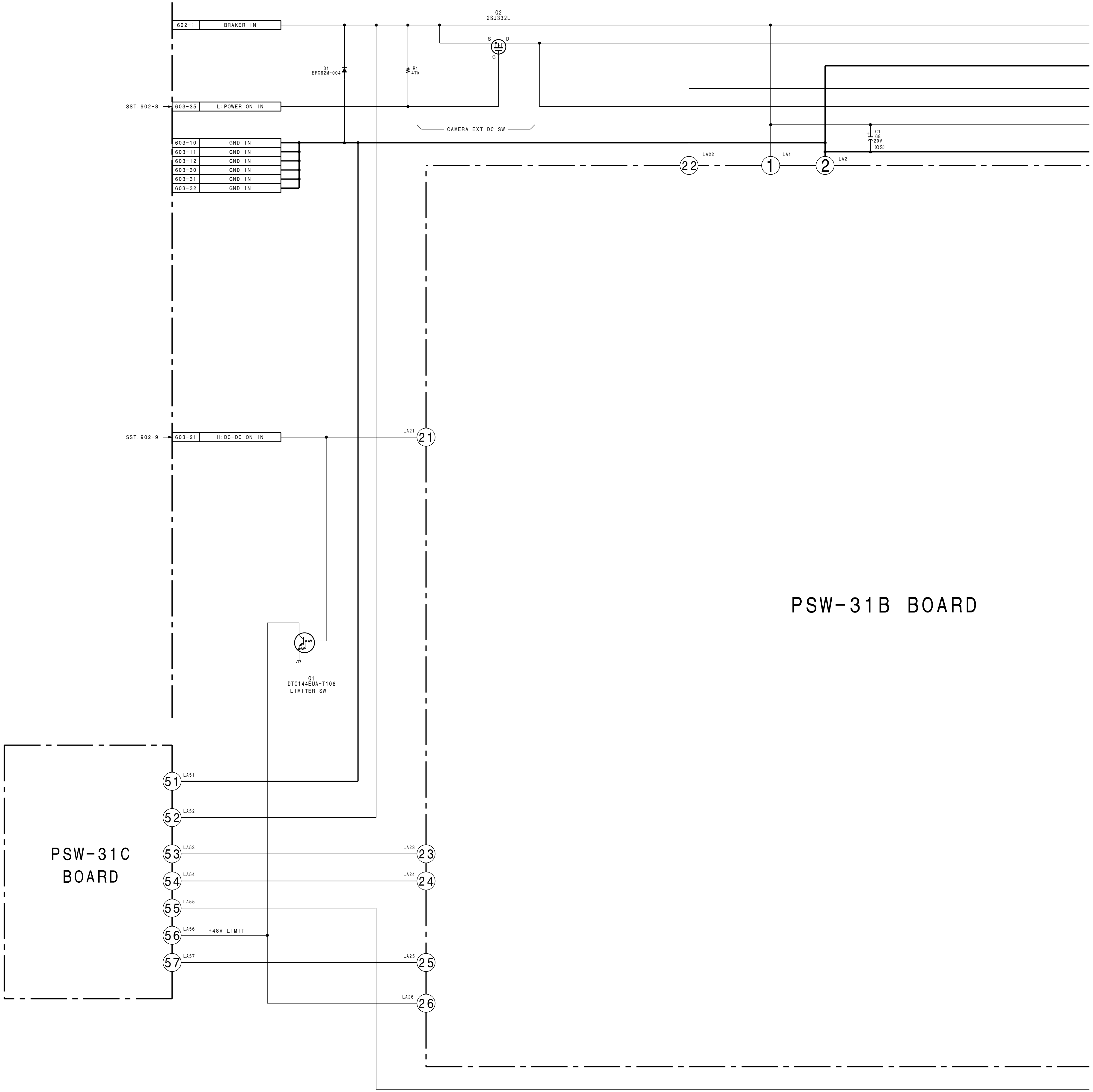
PSW-31A

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

PSW-31A (1-657-796-11)

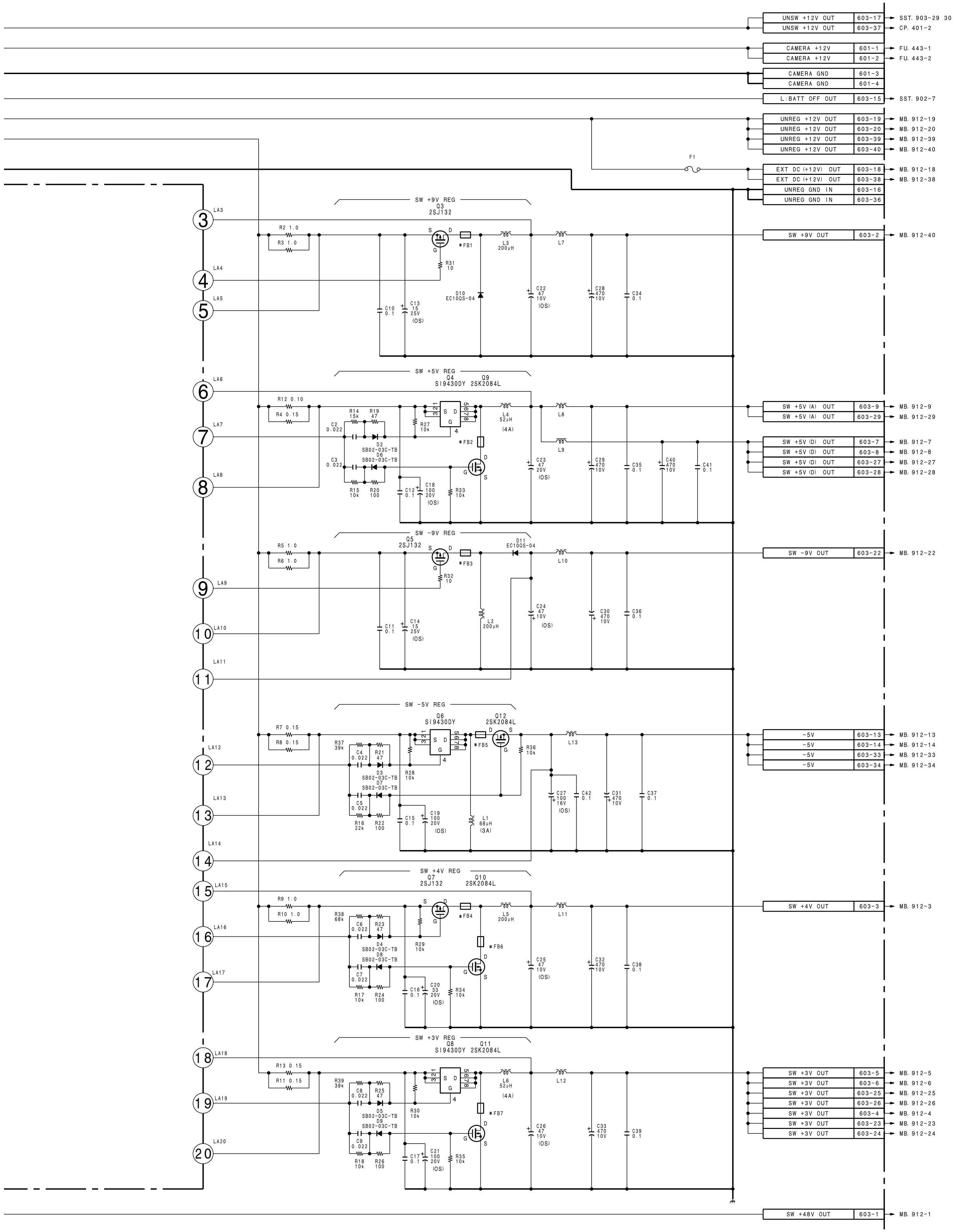
CN601	A2
CN602	A2
CN603	F1
D1	A1
D2	*D2
D3	*A1
D4	*G2
D5	*F2
D6	*D2
D7	*B2
D8	*F3
D9	*F2
D10	*D2
D11	*C2
F1	D1
L1	A2
L2	C3
L3	E3
L4	D2
L5	F3
L6	F2
L7	E2
L8	C1
L9	E1
L10	C2
L11	G2
L12	F2
L13	B1
Q1	*B2
Q2	B1
Q3	E2
Q4	*D3
Q5	C2
Q6	*B2
Q7	F2
Q8	*F3
Q9	D2
Q10	F2
Q11	F2
Q12	B2

* : Soldering Side



602-1
BRAKER IN
SST. 902-8
603-35
L:POWER ON IN
603-10
603-11
603-12
603-30
603-31
603-32
GND IN
D1
ERC62M-004
R1
47k
Q2
2SJ332L
S
D
G
CAMERA EXT DC SW
C1
68
20V
(OS)
LA22
LA1
LA2
22
1
2
SST. 902-9
603-21
H:DC-DC ON IN
LA21
21
Q1
DTC144EUA-T106
LIMITER SW
PSW-31B BOARD
PSW-31C
BOARD
51
52
53
54
55
56
57
LA51
LA52
LA53
LA54
LA55
LA56
LA57
+48V LIMIT
LA23
LA24
LA25
LA26
23
24
25
26

3-98


UNSW +12V OUT 603-17 SST. 903-29 30
UNSW +12V OUT 603-37 CP. 401-2
CAMERA +12V 601-1 FU. 443-1
CAMERA +12V 601-2 FU. 443-2
CAMERA GND 601-3
CAMERA GND 601-4
L:BATT OFF OUT 603-15 SST. 902-7
UNREG +12V OUT 603-19 MB. 912-19
UNREG +12V OUT 603-20 MB. 912-20
UNREG +12V OUT 603-39 MB. 912-39
UNREG +12V OUT 603-40 MB. 912-40
F1
EXT DC (+12V) OUT 603-18 MB. 912-18
EXT DC (+12V) OUT 603-38 MB. 912-38
UNREG GND IN 603-16
UNREG GND IN 603-36
SW +9V REG
Q3 2SJ132
SW +9V OUT 603-2 MB. 912-40
SW +5V REG
Q4 SI9430DY
Q9 2SK2084L
SW +5V (A) OUT 603-9 MB. 912-9
SW +5V (A) OUT 603-29 MB. 912-29
SW +5V (D) OUT 603-7 MB. 912-7
SW +5V (D) OUT 603-8 MB. 912-8
SW +5V (D) OUT 603-27 MB. 912-27
SW +5V (D) OUT 603-28 MB. 912-28
SW -9V REG
Q5 2SJ132
SW -9V OUT 603-22 MB. 912-22
SW -5V REG
Q6 SI9430DY
Q12 2SK2084L
-5V 603-13 MB. 912-13
-5V 603-14 MB. 912-14
-5V 603-33 MB. 912-33
-5V 603-34 MB. 912-34
SW +4V REG
Q7 2SJ132
Q10 2SK2084L
SW +4V OUT 603-3 MB. 912-3
SW +3V REG
Q8 SI9430DY
Q11 2SK2084L
SW +3V OUT 603-5 MB. 912-5
SW +3V OUT 603-6 MB. 912-6
SW +3V OUT 603-25 MB. 912-25
SW +3V OUT 603-26 MB. 912-26
SW +3V OUT 603-4 MB. 912-4
SW +3V OUT 603-23 MB. 912-23
SW +3V OUT 603-24 MB. 912-24
SW +48V OUT 603-1 MB. 912-1
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
1
2
3
4
5
I
J
K
L
M
N
O
P

DC-DC CONVERTER

PSW-31A

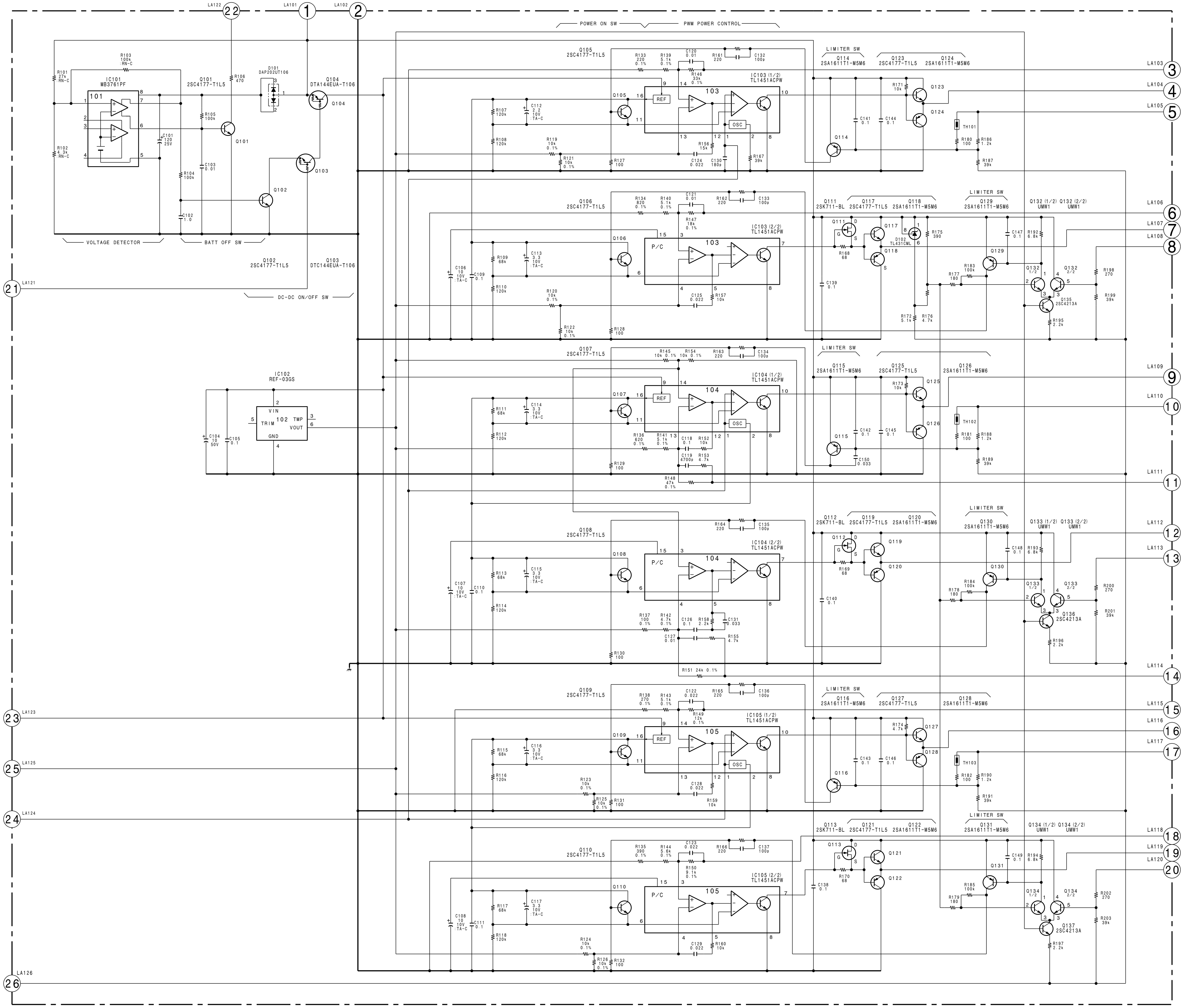
BOARD NO. 1-657-796-11
LOT NO. 409-
B-¥DVW250-PSW31A-11

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

PSW-31B (1-657-797-11)

D101	D1
D102	D2
IC101	D2
IC102	D1
IC103	B1
IC104	C1
IC105	A1
Q101	D1
Q102	D1
Q103	D1
Q104	D1
Q105	B1
Q106	B2
Q107	B1
Q108	C2
Q109	A1
Q110	A2
Q111	B2
Q112	C2
Q113	A2
Q114	A2
Q115	B2
Q116	A2
Q117	B2
Q118	B2
Q119	C2
Q120	C2
Q121	A2
Q122	A2
Q123	B2
Q124	B2
Q125	B2
Q126	B2
Q127	A2
Q128	A2
Q129	B2
Q130	C2
Q131	A2
Q132	B2
Q133	C2
Q134	A2
Q135	B2
Q136	C2
Q137	A2
TH101	A2
TH102	B2
TH103	A2

＊: Soldering Side



IC101 MB3761PF
IC102 REF-03GS
IC103 (1/2) TL1451ACPW
IC103 (2/2) TL1451ACPW
IC104 (1/2) TL1451ACPW
IC104 (2/2) TL1451ACPW
IC105 (1/2) TL1451ACPW
IC105 (2/2) TL1451ACPW
VOLTAGE DETECTOR
BATT OFF SW
DC-DC ON/OFF SW
POWER ON SW
PWM POWER CONTROL
LIMITER SW
REF
OSC
P/C
VIN
TRIM
VOUT
GND
TMP
Q101 2SC4177-T1L5
Q102 2SC4177-T1L5
Q103 DTC144EUA-T106
Q104 DTA144EUA-T106
D101 DAP202UT106
D102 TL431CWL
TH101
TH102
TH103
LA101
LA102
LA103
LA104
LA105
LA106
LA107
LA108
LA109
LA110
LA111
LA112
LA113
LA114
LA115
LA116
LA117
LA118
LA119
LA120
LA121
LA122
LA123
LA124
LA125
LA126

DC-DC CONVERTER
PSW-31B
BOARD NO. 1-657-797-11
LOT NO. 409-
B-¥DVW250-PSW31B-11

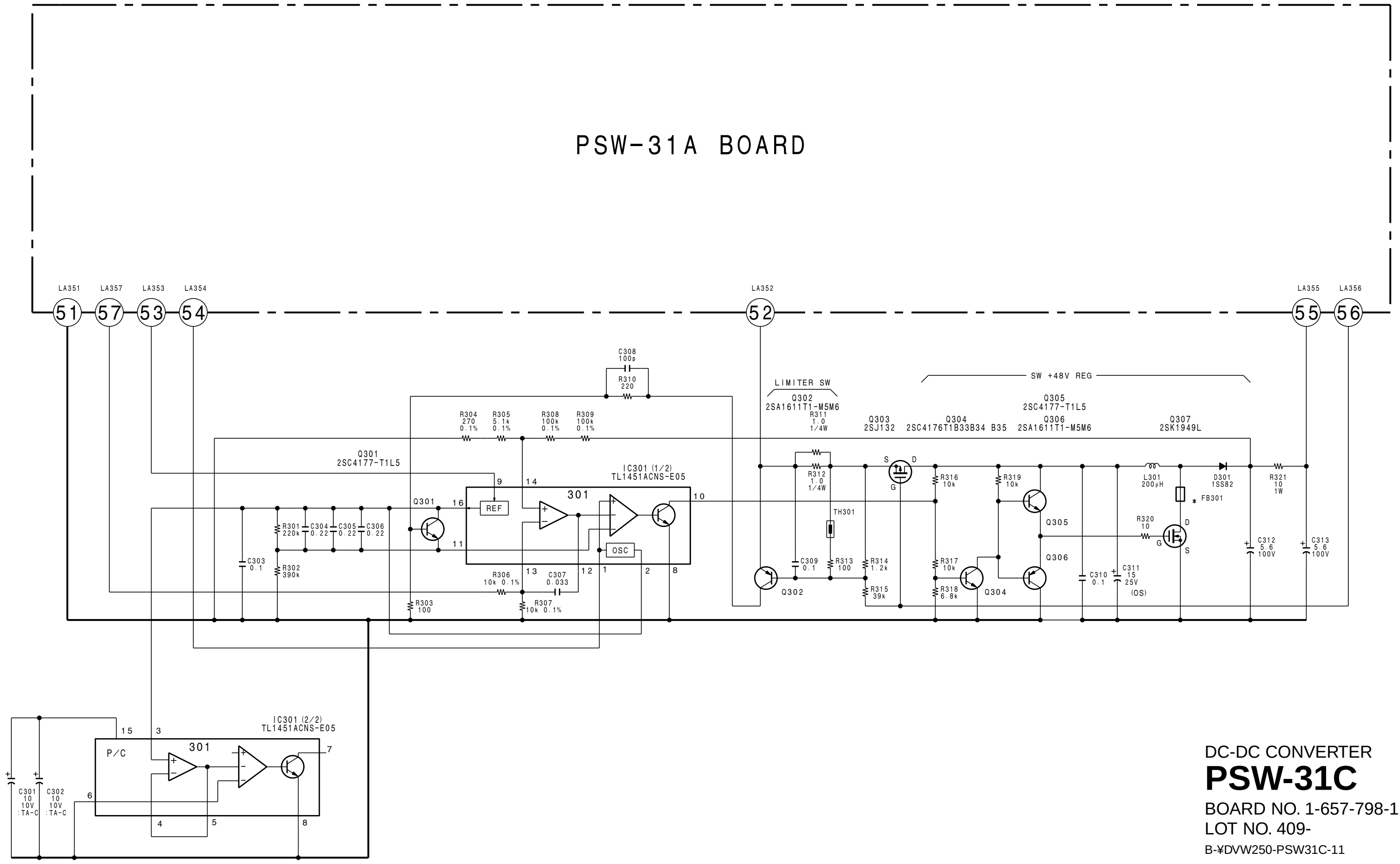
http://getMANUAL.com

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

PSW-31C (1-657-798-11)

D301	C1
IC301	∗A2
L301	B1
Q301	∗A2
Q302	∗B2
Q303	∗B2
Q304	∗B1
Q305	∗B1
Q306	∗B1
Q307	C1
TH301	∗B2

∗ : Soldering Side


PSW-31A BOARD
LA351
LA357
LA353
LA354
LA352
LA355
LA356
51
57
53
54
52
55
56
C308
100p
R310
220
R304
270
0.1%
R305
5.1k
0.1%
R308
100k
0.1%
R309
100k
0.1%
Q301
2SC4177-T1L5
IC301 (1/2)
TL1451ACNS-E05
301
REF
OSC
9
14
16
11
10
13
12
1
2
8
Q301
R301
220k
C304
0.22
C305
0.22
C306
0.22
C303
0.1
R302
390k
R306
10k 0.1%
C307
0.033
R303
100
R307
10k 0.1%
LIMITER SW
Q302
2SA1611T1-M5M6
R311
1.0
1/4W
R312
1.0
1/4W
TH301
C309
0.1
R313
100
R314
1.2k
R315
39k
Q302
Q303
2SJ132
S
D
G
SW +48V REG
Q304
2SC4176T1B33B34 B35
Q305
2SC4177-T1L5
Q306
2SA1611T1-M5M6
Q307
2SK1949L
R316
10k
R317
10k
R318
6.8k
Q304
R319
10k
Q305
Q306
C310
0.1
C311
15
25V
(OS)
L301
200μH
* FB301
R320
10
D
G
S
D301
1SS82
R321
10
1W
C312
5.6
100V
C313
5.6
100V
IC301 (2/2)
TL1451ACNS-E05
15
3
301
P/C
7
6
4
5
8
C301
10
10V
:TA-C
C302
10
10V
:TA-C

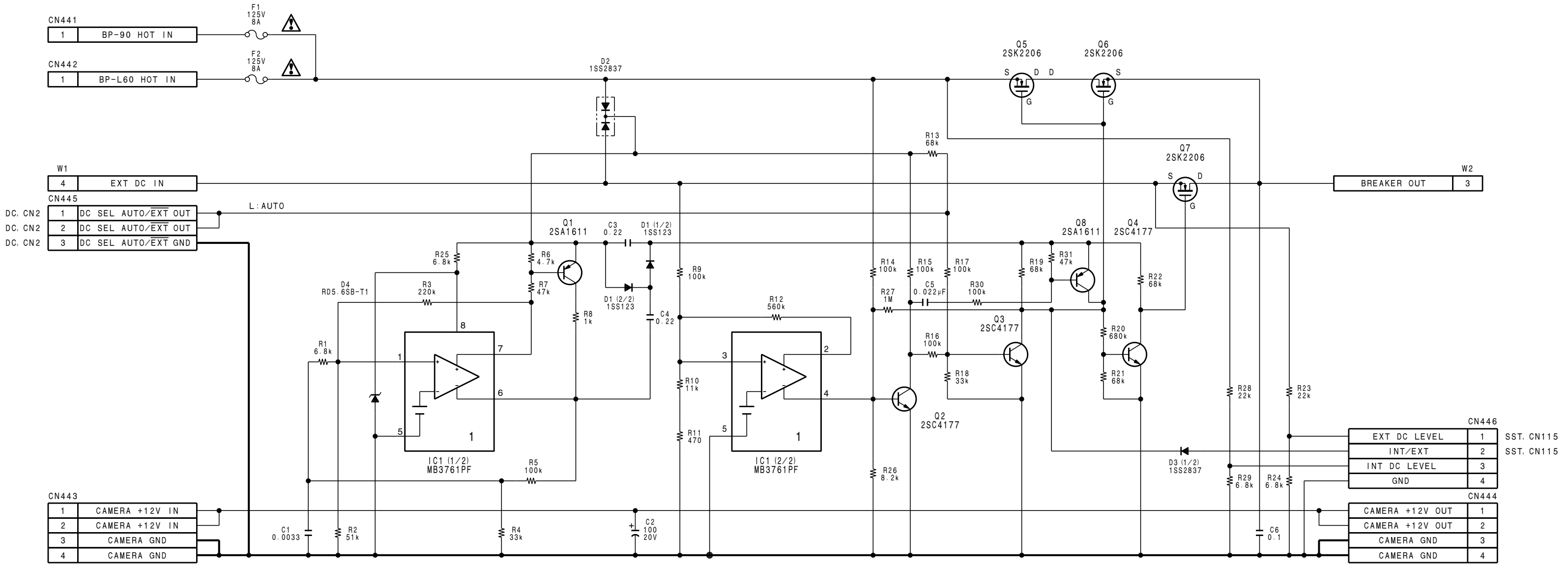
DC-DC CONVERTER
PSW-31C
BOARD NO. 1-657-798-11
LOT NO. 409-
B-¥DVW250-PSW31C-11

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

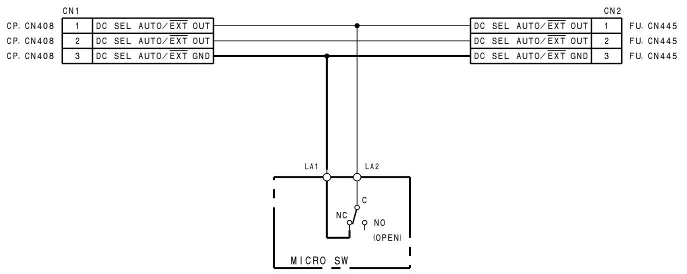
FU-63 (1-657-813-11)

CN441	A3
CN442	A3
CN443	A1
CN444	A1
CN445	A1
CN446	A1
D1	*A1
D2	A2
D3	*A1
D4	*A2
F1	*A3
F2	*A3
IC1	A2
Q1	*A2
Q2	A2
Q3	*A2
Q4	*A1
Q5	A3
Q6	A3
Q7	A2
Q8	*A1

* : Soldering Side



CN441
1 BP-90 HOT IN
CN442
1 BP-L60 HOT IN
F1 125V 8A
F2 125V 8A
D2 1SS287
W1
4 EXT DC IN
CN445
DC. CN2 1 DC SEL AUTO/EXT OUT
DC. CN2 2 DC SEL AUTO/EXT OUT
DC. CN2 3 DC SEL AUTO/EXT GND
L : AUTO
Q1 2SA1611
C3 0.22
D1 (1/2) 1SS123
D1 (2/2) 1SS123
C4 0.22
R25 6.8k
R6 4.7k
R7 47k
R8 1k
R9 100k
R10 11k
R11 470
R3 220k
D4 RD5.6SB-T1
R1 6.8k
IC1 (1/2) MB3761PF
IC1 (2/2) MB3761PF
R5 100k
R12 560k
R4 33k
R2 51k
C1 0.0033
C2 100 20V
CN443
1 CAMERA +12V IN
2 CAMERA +12V IN
3 CAMERA GND
4 CAMERA GND
Q5 2SK2206
Q6 2SK2206
Q7 2SK2206
Q8 2SA1611
Q4 2SC4177
Q3 2SC4177
Q2 2SC4177
R13 68k
R14 100k
R15 100k
R17 100k
R27 1W
C5 0.022μF
R30 100k
R16 100k
R18 33k
R19 68k
R31 47k
R22 68k
R20 680k
R21 68k
R26 8.2k
R28 22k
R23 22k
R29 6.8k
R24 6.8k
C6 0.1
D3 (1/2) 1SS287
W2
BREAKER OUT 3
CN446
EXT DC LEVEL 1 SST. CN115
INT/EXT 2 SST. CN115
INT DC LEVEL 3
GND 4
CN444
CAMERA +12V OUT 1
CAMERA +12V OUT 2
CAMERA GND 3
CAMERA GND 4



CN1
CP. CN408 1 DC SEL AUTO/EXT OUT
CP. CN408 2 DC SEL AUTO/EXT OUT
CP. CN408 3 DC SEL AUTO/EXT GND
CN2
DC SEL AUTO/EXT OUT 1 FU. CN445
DC SEL AUTO/EXT OUT 2 FU. CN445
DC SEL AUTO/EXT GND 3 FU. CN445
LA1
LA2
C
NC
NO
(OPEN)
MICRO SW

FUSE
FU-63
BOARD NO. 1-657-813-11
LOT NO. 409-
B-¥DVW250-FU63-11

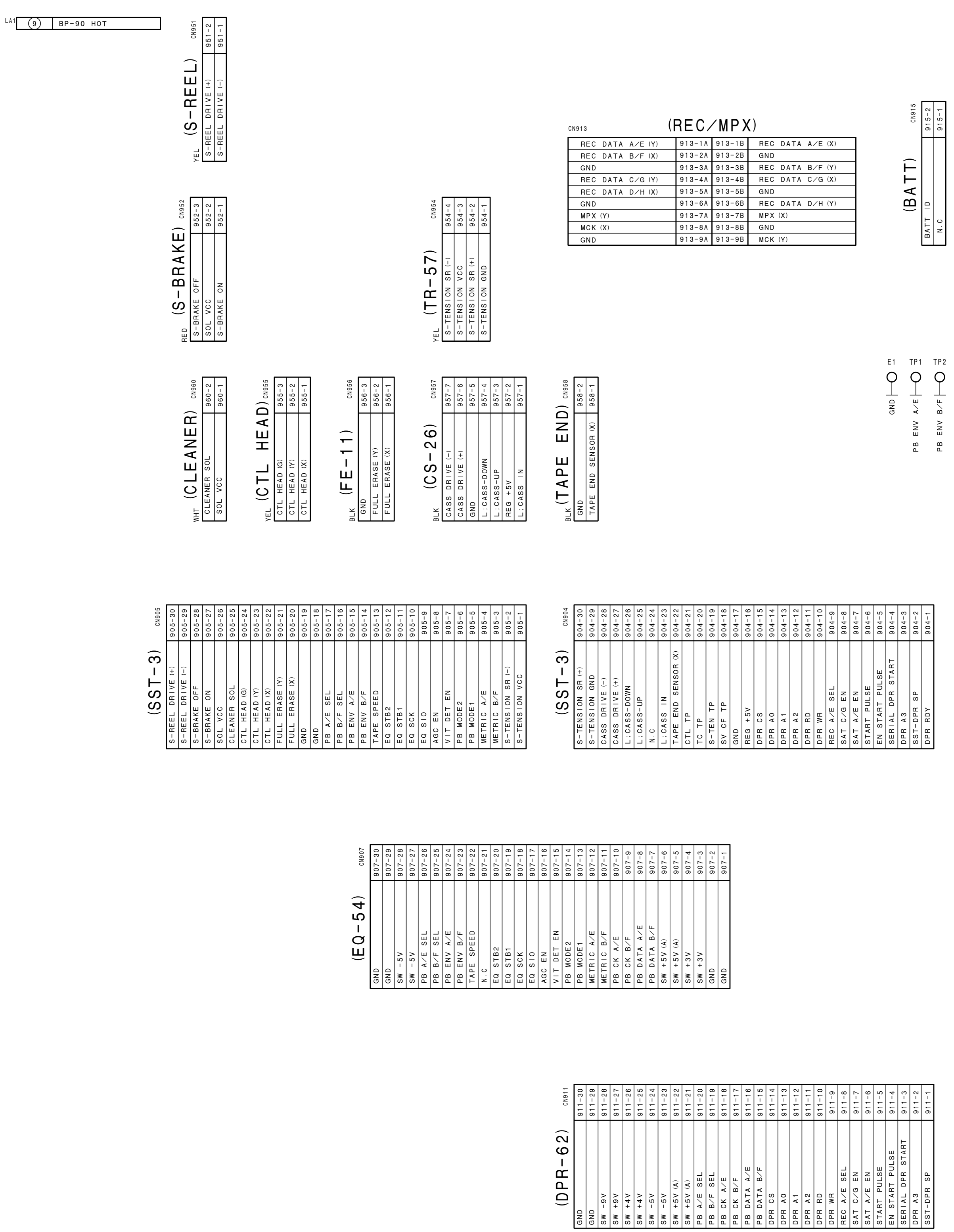
DC INPUT SELECT SWITCH
DC-85
BOARD NO. 1-658-773-11
LOT NO. 409-
B-¥DVW250-DC85-11

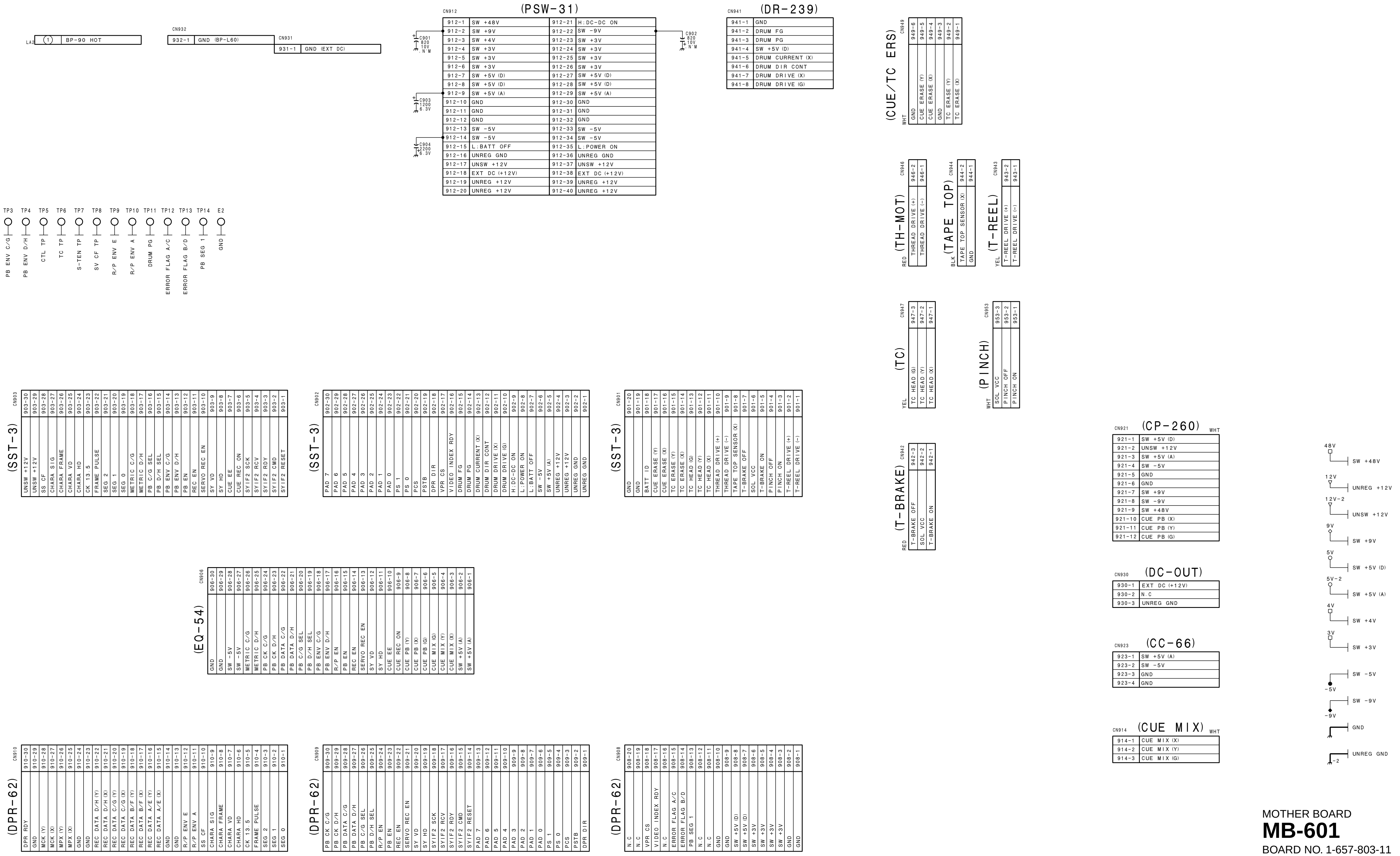
DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)

MB-601 (1-657-803-11)

CN901	A1
CN902	B1
CN903	D1
CN904	E1
CN905	F1
CN906	*C1
CN907	*E1
CN908	A1
CN909	B1
CN910	C1
CN911	E1
CN912	*A3
CN913	D3
CN914	A1
CN915	C3
CN921	*A3
CN923	*A1
CN930	*A2
CN931	B3
CN932	B3
CN941	A3
CN942	A3
CN943	A3
CN944	A3
CN946	A3
CN947	A3
CN949	A3
CN951	F3
CN952	F3
CN953	A3
CN954	E3
CN955	F3
CN956	E3
CN957	E3
CN958	E3
CN960	F3
E1	F3
E2	C3
TP1	F3
TP2	E3
TP3	E3
TP4	E3
TP5	E3
TP6	E3
TP7	E3
TP8	E3
TP9	D3
TP10	D3
TP11	D3
TP12	C3
TP13	C3
TP14	C3

*: Soldering Side

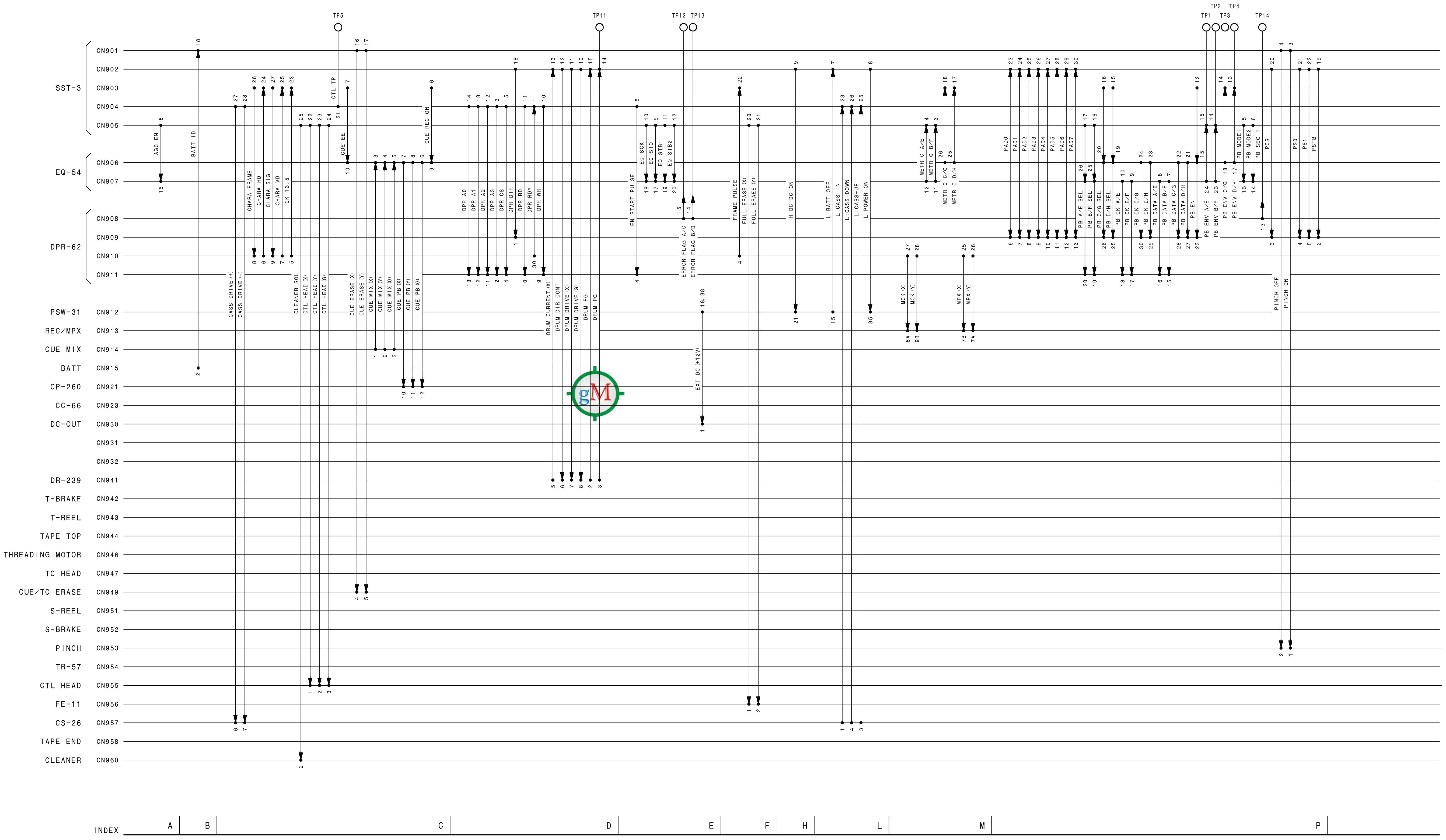

BP-90 HOT
(S-REEL)
(REC/MPX)
(BATT)
(S-BRAKE)
(TR-57)
E1 TP1 TP2
GND
PB ENV A/E
PB ENV B/F
(CLEANER)
(CTL HEAD)
(FE-11)
(CS-26)
(TAPE END)
(SST-3)
(SST-3)
(EQ-54)
(DPR-62)


1
2
3
4
5
LA2
①
BP-90 HOT
CN932
932-1 GND (BP-L60)
CN931
931-1 GND (EXT DC)
CN912
(PSW-31)
912-1 SW +48V
912-2 SW +9V
912-3 SW +4V
912-4 SW +3V
912-5 SW +3V
912-6 SW +3V
912-7 SW +5V (D)
912-8 SW +5V (D)
912-9 SW +5V (A)
912-10 GND
912-11 GND
912-12 GND
912-13 SW -5V
912-14 SW -5V
912-15 L;BATT OFF
912-16 UNREG GND
912-17 UNSW +12V
912-18 EXT DC (+12V)
912-19 UNREG +12V
912-20 UNREG +12V
912-21 H;DC-DC ON
912-22 SW -9V
912-23 SW +3V
912-24 SW +3V
912-25 SW +3V
912-26 SW +3V
912-27 SW +5V (D)
912-28 SW +5V (D)
912-29 SW +5V (A)
912-30 GND
912-31 GND
912-32 GND
912-33 SW -5V
912-34 SW -5V
912-35 L;POWER ON
912-36 UNREG GND
912-37 UNSW +12V
912-38 EXT DC (+12V)
912-39 UNREG +12V
912-40 UNREG +12V
C901 820 10V ,N'M
C903 1200 6.3V
C904 2200 6.3V
C902 820 10V ,N'M
CN941
(DR-239)
941-1 GND
941-2 DRUM FG
941-3 DRUM PG
941-4 SW +5V (D)
941-5 DRUM CURRENT (X)
941-6 DRUM DIR CONT
941-7 DRUM DRIVE (X)
941-8 DRUM DRIVE (G)
(CUE/TC ERS)
WHT
CN949
GND 949-6
CUE ERASE (Y) 949-5
CUE ERASE (X) 949-4
GND 949-3
TC ERASE (Y) 949-2
TC ERASE (X) 949-1
RED
(TH-MOT)
CN946
THREAD DRIVE (+) 946-2
THREAD DRIVE (−) 946-1
BLK
(TAPE TOP)
CN944
TAPE TOP SENSOR (X) 944-2
GND 944-1
YEL
(T-REEL)
CN943
T-REEL DRIVE (+) 943-2
T-REEL DRIVE (−) 943-1
YEL
(TC)
CN947
TC HEAD (G) 947-3
TC HEAD (Y) 947-2
TC HEAD (X) 947-1
WHT
(PINCH)
CN953
SOL VCC 953-3
PINCH OFF 953-2
PINCH ON 953-1
RED
(T-BRAKE)
CN942
T-BRAKE OFF 942-3
SOL VCC 942-2
T-BRAKE ON 942-1
PB ENV C/G TP3
PB ENV D/H TP4
CTL TP TP5
TC TP TP6
S-TEN TP TP7
SV CF TP TP8
R/P ENV E TP9
R/P ENV A TP10
DRUM PG TP11
ERROR FLAG A/C TP12
ERROR FLAG B/D TP13
PB SEG 1 TP14
GND E2
(SST-3)
CN903
UNSW +12V 903-30
UNSW +12V 903-29
SS CF 903-28
CHARA SIG 903-27
CHARA FRAME 903-26
CHARA VD 903-25
CHARA HD 903-24
CK 13.5 903-23
FRAME PULSE 903-22
SEG 2 903-21
SEG 1 903-20
SEG 0 903-19
METRIC C/G 903-18
METRIC D/H 903-17
PB C/G SEL 903-16
PB D/H SEL 903-15
PB ENV C/G 903-14
PB ENV D/H 903-13
PB EN 903-12
REC EN 903-11
SERVO REC EN 903-10
SY VD 903-9
SY HD 903-8
CUE EE 903-7
CUE REC ON 903-6
SYIF2 SCK 903-5
SYIF2 RCV 903-4
SYIF2 RDY 903-3
SYIF2 CMD 903-2
SYIF2 RESET 903-1
(SST-3)
CN902
PAD 7 902-30
PAD 6 902-29
PAD 5 902-28
PAD 4 902-27
PAD 3 902-26
PAD 2 902-25
PAD 1 902-24
PAD 0 902-23
PS 1 902-22
PS 0 902-21
PCS 902-20
PSTB 902-19
DPR DIR 902-18
VPR CS 902-17
VIDEO INDEX RDY 902-16
DRUM FG 902-15
DRUM PG 902-14
DRUM CURRENT (X) 902-13
DRUM DIR CONT 902-12
DRUM DRIVE (X) 902-11
DRUM DRIVE (G) 902-10
H;DC-DC ON 902-9
L;POWER ON 902-8
L;BATT OFF 902-7
SW -5V 902-6
SW +5V (A) 902-5
UNREG +12V 902-4
UNREG +12V 902-3
UNREG GND 902-2
UNREG GND 902-1
(SST-3)
CN901
GND 901-20
GND 901-19
BATT ID 901-18
CUE ERASE (Y) 901-17
CUE ERASE (X) 901-16
TC ERASE (Y) 901-15
TC ERASE (X) 901-14
TC HEAD (G) 901-13
TC HEAD (Y) 901-12
TC HEAD (X) 901-11
THREAD DRIVE (+) 901-10
THREAD DRIVE (−) 901-9
TAPE TOP SENSOR (X) 901-8
T-BRAKE OFF 901-7
SOL VCC 901-6
T-BRAKE ON 901-5
PINCH OFF 901-4
PINCH ON 901-3
T-REEL DRIVE (+) 901-2
T-REEL DRIVE (−) 901-1
(EQ-54)
CN906
GND 906-30
GND 906-29
SW -5V 906-28
SW -5V 906-27
METRIC C/G 906-26
METRIC D/H 906-25
PB CK C/G 906-24
PB CK D/H 906-23
PB DATA C/G 906-22
PB DATA D/H 906-21
PB C/G SEL 906-20
PB D/H SEL 906-19
PB ENV C/G 906-18
PB ENV D/H 906-17
R/P EN 906-16
PB EN 906-15
REC EN 906-14
SERVO REC EN 906-13
SY VD 906-12
SY HD 906-11
CUE EE 906-10
CUE REC ON 906-9
CUE PB (Y) 906-8
CUE PB (X) 906-7
CUE PB (G) 906-6
CUE MIX (G) 906-5
CUE MIX (Y) 906-4
CUE MIX (X) 906-3
SW +5V (A) 906-2
SW +5V (A) 906-1
(DPR-62)
CN910
DPR RDY 910-30
GND 910-29
MCK (Y) 910-28
MCK (X) 910-27
MPX (Y) 910-26
MPX (X) 910-25
GND 910-24
GND 910-23
REC DATA D/H (Y) 910-22
REC DATA D/H (X) 910-21
REC DATA C/G (Y) 910-20
REC DATA C/G (X) 910-19
REC DATA B/F (Y) 910-18
REC DATA B/F (X) 910-17
REC DATA A/E (Y) 910-16
REC DATA A/E (X) 910-15
GND 910-14
GND 910-13
R/P ENV E 910-12
R/P ENV A 910-11
SS CF 910-10
CHARA SIG 910-9
CHARA FRAME 910-8
CHARA VD 910-7
CHARA HD 910-6
CK 13.5 910-5
FRAME PULSE 910-4
SEG 2 910-3
SEG 1 910-2
SEG 0 910-1
(DPR-62)
CN909
PB CK C/G 909-30
PB CK D/H 909-29
PB DATA C/G 909-28
PB DATA D/H 909-27
PB C/G SEL 909-26
PB D/H SEL 909-25
R/P EN 909-24
PB EN 909-23
REC EN 909-22
SERVO REC EN 909-21
SY VD 909-20
SY HD 909-19
SYIF2 SCK 909-18
SYIF2 RCV 909-17
SYIF2 RDY 909-16
SYIF2 CMD 909-15
SYIF2 RESET 909-14
PAD 7 909-13
PAD 6 909-12
PAD 5 909-11
PAD 4 909-10
PAD 3 909-9
PAD 2 909-8
PAD 1 909-7
PAD 0 909-6
PS 1 909-5
PS 0 909-4
PCS 909-3
PSTB 909-2
DPR DIR 909-1
(DPR-62)
CN908
N.C 908-20
N.C 908-19
VPR CS 908-18
VIDEO INDEX RDY 908-17
N.C 908-16
ERROR FLAG A/C 908-15
ERROR FLAG B/D 908-14
PB SEG 1 908-13
N.C 908-12
N.C 908-11
GND 908-10
GND 908-9
SW +5V (D) 908-8
SW +5V (D) 908-7
SW +3V 908-6
SW +3V 908-5
SW +3V 908-4
SW +3V 908-3
GND 908-2
GND 908-1
CN921
(CP-260)
WHT
921-1 SW +5V (D)
921-2 UNSW +12V
921-3 SW +5V (A)
921-4 SW -5V
921-5 GND
921-6 GND
921-7 SW +9V
921-8 SW -9V
921-9 SW +48V
921-10 CUE PB (X)
921-11 CUE PB (Y)
921-12 CUE PB (G)
CN930
(DC-OUT)
930-1 EXT DC (+12V)
930-2 N.C
930-3 UNREG GND
CN923
(CC-66)
923-1 SW +5V (A)
923-2 SW -5V
923-3 GND
923-4 GND
CN914
(CUE MIX)
WHT
914-1 CUE MIX (X)
914-2 CUE MIX (Y)
914-3 CUE MIX (G)
48V
SW +48V
12V
UNREG +12V
12V-2
UNSW +12V
9V
SW +9V
5V
SW +5V (D)
5V-2
SW +5V (A)
4V
SW +4V
3V
SW +3V
SW -5V
-5V
SW -9V
-9V
GND
UNREG GND
-2

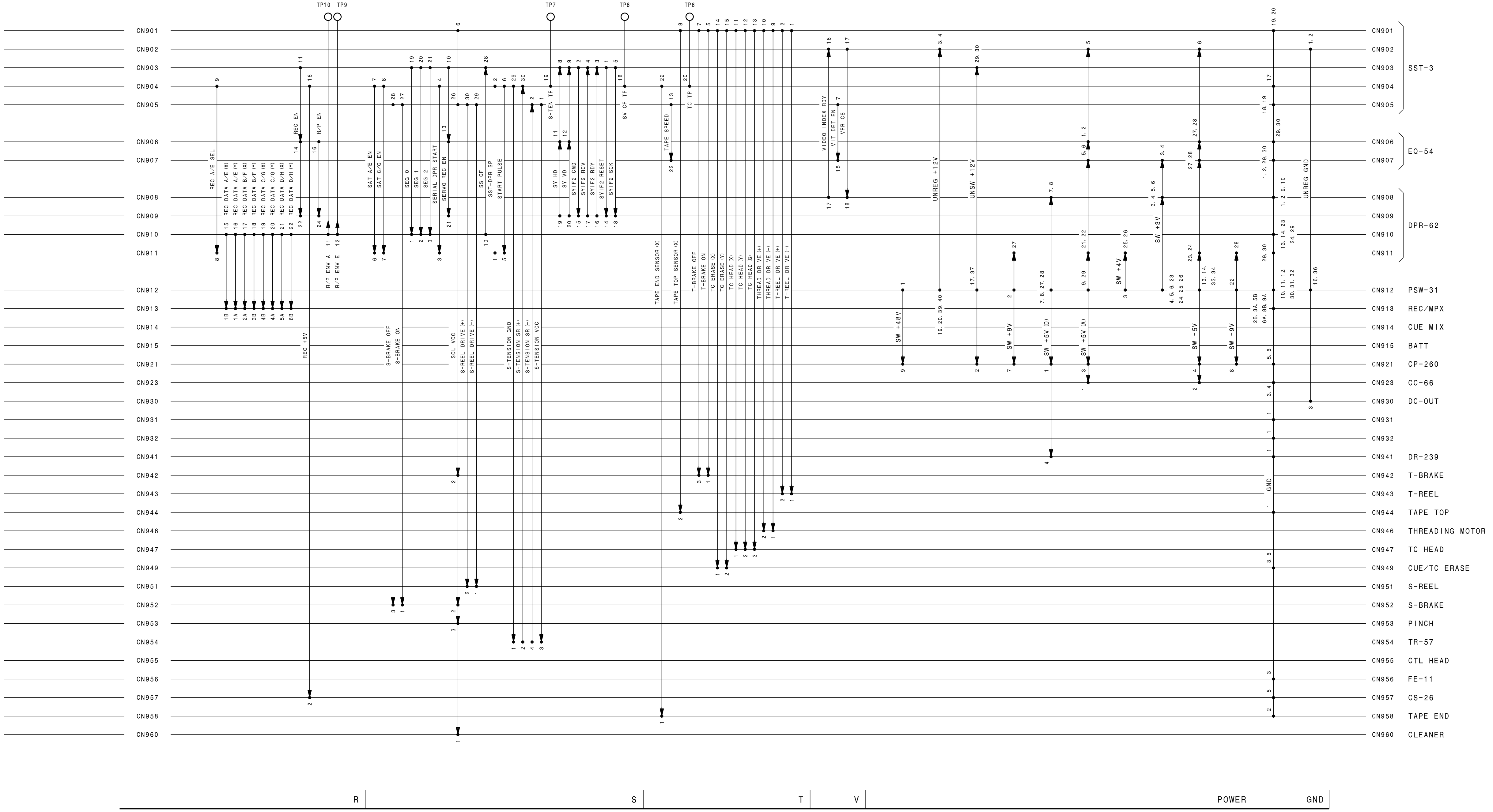
MOTHER BOARD
MB-601
BOARD NO. 1-657-803-11
LOT NO. 409-
B-¥DVW250-MB601-11

MB-601 MB-601

DVW-250 (J)
DVW-250 (UC)
DVW-250P (SY)



SST-3
CN901
CN902
CN903
CN904
CN905
EQ-54
CN906
CN907
DPR-62
CN908
CN909
CN910
CN911
PSW-31 CN912
REC/MPX CN913
CUE MIX CN914
BATT CN915
CP-260 CN921
CC-66 CN923
DC-OUT CN930
CN931
CN932
DR-239 CN941
T-BRAKE CN942
T-REEL CN943
TAPE TOP CN944
THREADING MOTOR CN946
TC HEAD CN947
CUE/TC ERASE CN949
S-REEL CN951
S-BRAKE CN952
PINCH CN953
TR-57 CN954
CTL HEAD CN955
FE-11 CN956
CS-26 CN957
TAPE END CN958
CLEANER CN960
TP5
TP11
TP12
TP13
TP1
TP2
TP3
TP4
TP14
INDEX
A
B
C
D
E
F
H
L
M
P


TP10
TP9
TP7
TP8
TP6
CN901
CN902
CN903
CN904
CN905
CN906
CN907
CN908
CN909
CN910
CN911
CN912
CN913
CN914
CN915
CN921
CN923
CN930
CN931
CN932
CN941
CN942
CN943
CN944
CN946
CN947
CN949
CN951
CN952
CN953
CN954
CN955
CN956
CN957
CN958
CN960
SST-3
EQ-54
DPR-62
PSW-31
REC/MPX
CUE MIX
BATT
CP-260
CC-66
DC-OUT
DR-239
T-BRAKE
T-REEL
TAPE TOP
THREADING MOTOR
TC HEAD
CUE/TC ERASE
S-REEL
S-BRAKE
PINCH
TR-57
CTL HEAD
FE-11
CS-26
TAPE END
CLEANER
REC A/E SEL
REC DATA A/E (X)
REC DATA A/E (Y)
REC DATA B/F (X)
REC DATA B/F (Y)
REC DATA C/G (X)
REC DATA C/G (Y)
REC DATA D/H (X)
REC DATA D/H (Y)
REC EN
R/P EN
R/P ENV A
R/P ENV E
REG +5V
SAT A/E EN
SAT C/G EN
S-BRAKE OFF
S-BRAKE ON
SEG 0
SEG 1
SEG 2
SERIAL DPR START
SERVO REC EN
SOL VCC
S-REEL DRIVE (+)
S-REEL DRIVE (−)
SS CF
SST-DPR SP
START PULSE
S-TENSION GND
S-TENSION SR (+)
S-TENSION SR (−)
S-TENSION VCC
SY HD
SY VD
SYIF2 CMD
SYIF2 RCV
SYIF2 RDY
SYIF2 RESET
SYIF2 SCK
S-TEN TP
SV CF TP
TAPE SPEED
TC TP
TAPE END SENSOR (X)
TAPE TOP SENSOR (X)
T-BRAKE OFF
T-BRAKE ON
TC ERASE (X)
TC ERASE (Y)
TC HEAD (X)
TC HEAD (Y)
TC HEAD (G)
THREAD DRIVE (+)
THREAD DRIVE (−)
T-REEL DRIVE (+)
T-REEL DRIVE (−)
VIDEO INDEX RDY
VIT DET EN
VPR CS
UNREG +12V
UNSW +12V
SW +48V
SW +9V
SW +5V (D)
SW +5V (A)
SW +4V
SW +3V
SW −5V
SW −9V
UNREG GND
GND
R
S
T
V
POWER
GND

MOTHER BOARD
MB-601
BOARD NO. 1-657-803-11
LOT NO. 409-
B-¥DVW250-MB601-KESSEN-11

Section 4
Semiconductor Pin Assignments

ここに記載されている半導体は，それぞれの機能を等価的に表したものです。　なお，互換性のない型名を併記していることがありますので，部品を交換するときは，Spare Partsの章を参照してください。
等価回路はＩＣメーカーのデータブックに従いました。

Semiconductors of which functions are equivalent are described here. For parts replacement, refer to the section of Spare Parts in this manual. The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

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DAP202U ... 4-2
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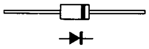
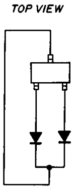
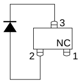
DIODE



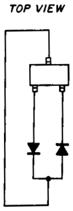
1SS119
1SS83
1SS97
ERA85
ERB83



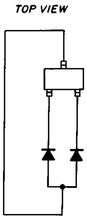
1SS184
DAN202U
RB715F



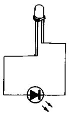
1SS193
RB420D
SB007-03CP



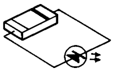
1SS226
DA204U
SB007T03Q



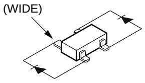
1SS303
RB717F



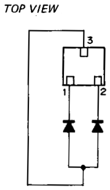
BR5505S;RED



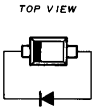
CL-150R-CD;RED



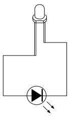
DA227


TOP VIEW
3
1
2

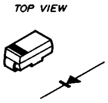
DAP202U



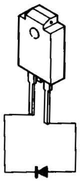
DTZ12



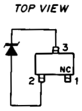
EBR3402S;RED



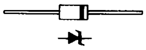
EC10QS-04



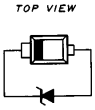
ERC62M-004


TOP VIEW
3
NC
2
1

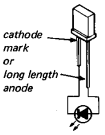
RD ? ?M-B
RD10M
RD11M-B1
RD15M-B1
RD3.3M-B
RD3.6UH
RD3.9UH
RD4.7UH
RD6.8M-B



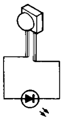
RD2.0ESB2



RD5.6SB

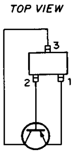

cathode mark
or
long length anode

SLP162B;RED

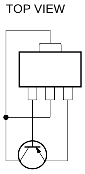


TLR224;RED

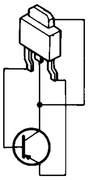
TRANSISTOR


TOP VIEW
3
2
1

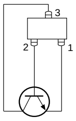
2SA1162G
2SA1330
2SA1610
2SA1611
2SA1808
2SB1295



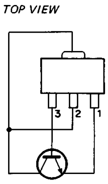
2SB1123
2SB798



2SB1202FA

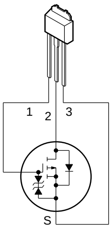


2SC1623
2SC3356
2SC3360
2SC3735
2SC4176
2SC4177
2SC4177-L6
2SC4213A
2SC4213B
2SD1328
2SD1935
2SD2114K
2SD596

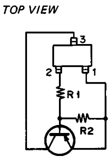

TOP VIEW
3
2
1

2SC2982C
2SD1621
2SD1623

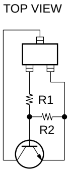
http://getMANUAL.com



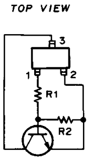
2SJ332L


TOP VIEW
3
2
1
R1
R2

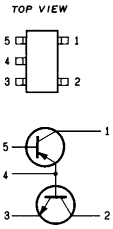
DTA124EUA(R1=22K, R2=22K)
DTA144EUA(R1=47K, R2=47K)
DTA144WU(R1=47K, R2=22K)


TOP VIEW
R1
R2

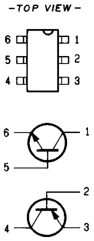
DTC124EUA(R1=22K, R2=22K)
DTC143TKA(R1=4.7K, R2=OPEN)
DTC144EUA(R1=47K, R2=47K)
DTC144WU(R1=47K, R2=22K)


TOP VIEW
3
1
2
R1
R2

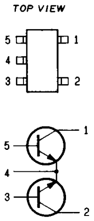
DTC124XKA(R1=22K, R2=47K)


TOP VIEW
5
4
3
1
2
1
5
4
3
2

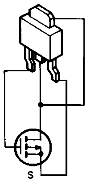
FMY3


–TOP VIEW–
6
5
4
1
2
3
6
1
5
2
4
3

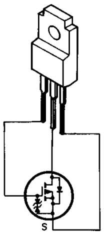
IMZ1


TOP VIEW
5
4
3
1
2
1
5
4
3
2

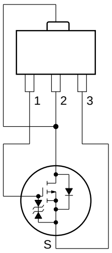
UMW1



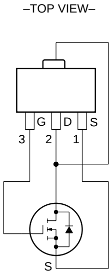
2SJ132



2SJ176

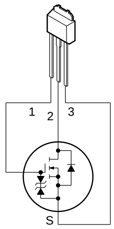


2SJ187

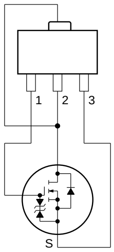

–TOP VIEW–
G
D
S
3
2
1
S

2SK1483

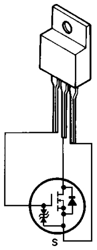
Tr,Others



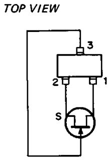
2SK1949L
2SK2084L



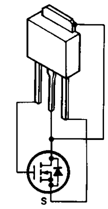
2SK2151



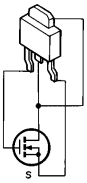
2SK2205


TOP VIEW
3
2
1
S

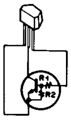
2SK711
2SK852-X2
2SK94-X4



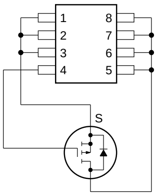
2SK738



2SK739-Z

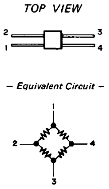


DTC144ESA (R1=47K, R2=47K)

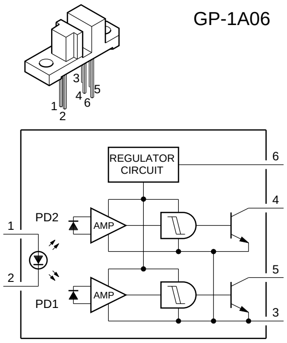


SI-9430DY

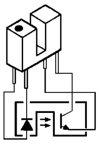
Others


TOP VIEW
2
3
1
4
– Equivalent Circuit –
1
2
4
3

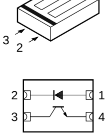
DM-230


3
5
4
6
1
2
REGULATOR CIRCUIT
6
4
PD2
AMP
1
2
5
PD1
AMP
3

GP-1A06



GP1S54



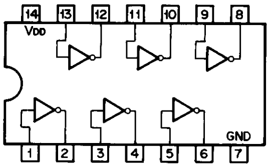
(BOTTOM VIEW)

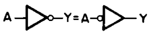
PR-11

IC

74AC04SJ (NS) FLAT PACKAGE
SN74HC04ANS (TI) FLAT PACKAGE
SN74HCT04ANS (TI) FLAT PACKAGE
TC74HCT04AF (TOSHIBA) FLAT PACKAGE
TC74VHC04FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)

C-MOS HEX INVERTERS
– TOP VIEW –


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



$Y = \overline{A}$

A	Y
0	1
1	0

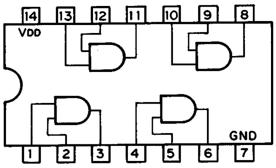
0 ; LOW LEVEL
1 ; HIGH LEVEL

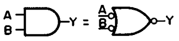
NOTE :

TYPE	VDD
74HCT04 TYPE	+ 5V
TC74AC04 TYPE TC74VHC04 TYPE	+ 2 to + 5.5V
74ACT04 TYPE	+ 4.5 to + 5.5V
OTHER TYPES	+ 2 to + 6V

74AC08SJ (NS) FLAT PACKAGE
SN74HC08ANS (TI) FLAT PACKAGE
TC74VHC08FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)

C-MOS QUAD 2-INPUT AND GATES
– TOP VIEW –


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



$Y = A \cdot B = \overline{\overline{A} + \overline{B}}$

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

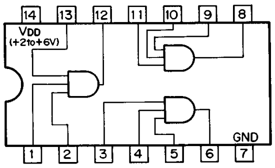
0 ; LOW LEVEL
1 ; HIGH LEVEL

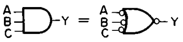
NOTE :

TYPE	VDD
TC74AC08 TYPE MC74ACT08M	+ 2 to + 5.5V
TC40H	+ 2 to + 8V
OTHER TYPES	+ 2 to + 6v

74AC11SJ (NS) FLAT PACKAGE

C-MOS 3-INPUT POSITIVE-AND GATE
– TOP VIEW –


14
13
12
11
10
9
8
VDD
(+2to+6V)
GND
1
2
3
4
5
6
7



$Y = A \cdot B \cdot C = \overline{\overline{A} + \overline{B} + \overline{C}}$

A	B	C	Y
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	1

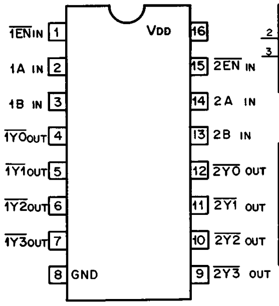
0;LOW LEVEL
1;HIGH LEVEL

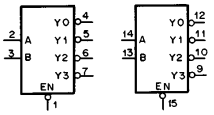
NOTE :

TYPE	VDD
TC74VHC11	+2V to +5.5V
OTHER TYPES	+2V to +6V

74AC139SJ (NS) FLAT PACKAGE

C-MOS DUAL 2-TO-4 DECODER/DEMULTIPLEXER
– TOP VIEW –


$\overline{\text{1EN}}$ IN 1
1A IN 2
1B IN 3
$\overline{\text{1Y0}}$ OUT 4
$\overline{\text{1Y1}}$ OUT 5
$\overline{\text{1Y2}}$ OUT 6
$\overline{\text{1Y3}}$ OUT 7
8 GND
VDD 16
15 $\overline{\text{2EN}}$ IN
14 2A IN
13 2B IN
12 $\overline{\text{2Y0}}$ OUT
11 $\overline{\text{2Y1}}$ OUT
10 $\overline{\text{2Y2}}$ OUT
9 $\overline{\text{2Y3}}$ OUT


2
A
3
B
Y0
Y1
Y2
Y3
4
5
6
7
EN
1
14
A
13
B
Y0
Y1
Y2
Y3
12
11
10
9
EN
15

INPUTS			OUTPUTS			
EN	B	A	Y3	Y2	Y1	Y0
0	0	0	1	1	1	0
0	0	1	1	1	0	1
0	1	0	1	0	1	1
0	1	1	0	1	1	1
1	X	X	1	1	1	1

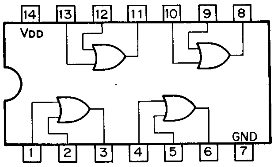
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

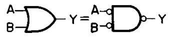
NOTE :

TYPE	VDD
HC	+2 to +6V
AC/VHC	+2 to +5.5V
HCT/ACT	+5V

74AC32SJ (NS) FLAT PACKAGE
SN74HC32ANS (TI) FLAT PACKAGE
SN74HCT32ANS (TI) FLAT PACKAGE
TC74VHC32F (TOSHIBA) FLAT PACKAGE
TC74VHC32FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)

C-MOS QUAD 2-INPUT OR GATES
– TOP VIEW –


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



$Y = A + B = \overline{\overline{A} \cdot \overline{B}}$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

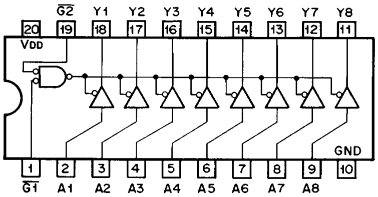
0;LOW LEVEL
1;HIGH LEVEL

NOTE :

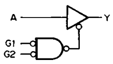
TYPE	VDD
AC/VHC	+2 to +5.5V
HC	+2 to +6V

74AC541SJ (NS) FLAT PACKAGE
MC74HC541N (MOTOROLA)
SN74HC541ANS (TI) FLAT PACKAGE
SN74HCT541ANS (TI) FLAT PACKAGE
TC74VHC541F (TOSHIBA) FLAT PACKAGE
TC74VHC541FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)
TC74VHCT541FS (TOSHIBA) FLAT PACKAGE

C-MOS BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS
– TOP VIEW –

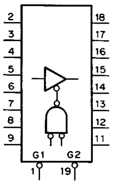


$\overline{G2}$ Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
20 19 18 17 16 15 14 13 12 11
VDD
GND
1 2 3 4 5 6 7 8 9 10
$\overline{G1}$ A1 A2 A3 A4 A5 A6 A7 A8



G1	G2	A	Y
0	0	0	0
0	0	1	1
1	X	X	HI-Z
X	1	X	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE



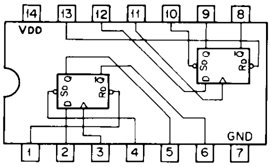
2
3
4
5
6
7
8
9
18
17
16
15
14
13
12
11
G1
G2
1
19

NOTE :

TYPE	VDD
AC/VHC	+2 to +5.5V
HC	+2 to +6V
ABT/ACT/BCT/HCT/VHCT	+5V

74AC74SJ (NS) FLAT PACKAGE
SN74HC74ANS (TI) FLAT PACKAGE
TC74VHC74F (TOSHIBA) FLAT PACKAGE
TC74VHC74FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)

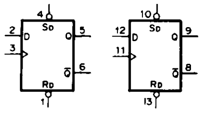
C-MOS DUAL D-TYPE FLIP-FLOPS WITH DIRECT SET/RESET
– TOP VIEW –



14 13 12 11 10 9 8
VDD
GND
1 2 3 4 5 6 7

INPUTS				OUTPUTS	
$\overline{S_D}$	$\overline{R_D}$	CK	D	Qn+1	$\overline{Qn+1}$
0	1	X	X	1	0
1	0	X	X	0	1
0	0	X	X	1	1
1	1	↑	1	1	0
1	1	↑	0	0	1
1	1	0	X	Qn	$\overline{Qn}$

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE



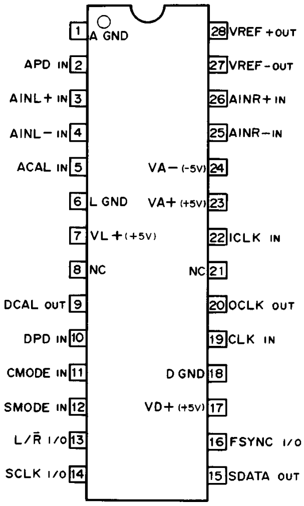
4
SD
2
D
3
5
Q
6
$\overline{Q}$
RD
1
10
SD
12
D
11
9
Q
8
$\overline{Q}$
RD
13

NOTE :

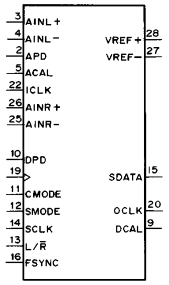
TYPE	VDD
HCT/ACT	+5V
TC74AC/VHC	+2 to +5.5V
OTHERS	+2 to +6V

AK5390-VS (ASAHI KASEI) FLAT PACKAGE

18-BIT STEREO A-D CONVERTER
– TOP VIEW –



1 A GND
APD IN 2
AINL+ IN 3
AINL− IN 4
ACAL IN 5
6 L GND
7 VL+(+5V)
8 NC
DCAL OUT 9
DPD IN 10
CMODE IN 11
SMODE IN 12
L/$\overline{R}$ I/O 13
SCLK I/O 14
28 VREF+OUT
27 VREF−OUT
26 AINR+ IN
25 AINR− IN
VA−(−5V) 24
VA+(+5V) 23
22 ICLK IN
NC 21
20 OCLK OUT
19 CLK IN
D GND 18
VD+(+5V) 17
16 FSYNC I/O
15 SDATA OUT

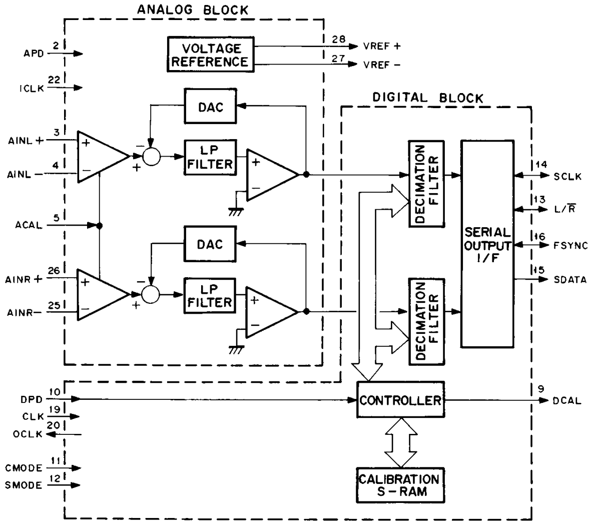


3 AINL+
4 AINL−
2 APD
5 ACAL
22 ICLK
26 AINR+
25 AINR−
10 DPD
19
11 CMODE
12 SMODE
14 SCLK
13 L/$\overline{R}$
16 FSYNC
VREF+ 28
VREF− 27
SDATA 15
OCLK 20
DCAL 9

INPUT
ACAL ; ANALOG CALIBRATION
(H : AGND)
(L : ANALOG SIGNAL INPUT = AINL, AINR)
AINL+ ; CHANNEL L ANALOG POSITIVE INPUT
AINL− ; CHANNEL L ANALOG NEGATIVE INPUT
AINR+ ; CHANNEL R ANALOG POSITIVE INPUT
AINR− ; CHANNEL R ANALOG NEGATIVE INPUT
APD ; POWER DOWN FOR ANALOG SECTION
CLK ; MASTER CLOCK
(CMODE = H : 384fs)
(CMODE = L : 256fs)
CMODE ; MASTER CLOCK SELECT
(L : CLK = 256fs, 12.288 MHz @fs = 48 kHz
(H : CLK = 384fs, 18.432 MHz @fs = 48 kHz
DPD ; POWER DOWN FOR DIGITAL SECTION
ICLK ; 128fs CLOCK
SMODE ; INTERFACE CLOCK SELECT
(L : SUB MODE)
(H : MASTER MODE)

OUTPUT
DCAL ; DIGITAL CALIBRATION
OCLK ; 128fs CLOCK
SDATA ; SERIAL DATA
VREF+ ; REFERENCE POSITIVE VOLTAGE (+3.68 V)
VREF− ; REFERENCE NEGATIVE VOLTAGE (−3.68 V)

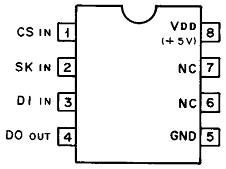
INPUT/OUTPUT
FSYNC ; FRAME SYNC CLOCK
L/$\overline{R}$; INPUT CHANNEL SELECT
(SUB MODE : fs CLK INPUT)
(MASTER MODE : fs CLK OUTPUT)
SCLK ; SERIAL DATA CLOCK
(SUB MODE : 64fs CLK INPUT)
(MASTER MODE : 64fs CLK OUTPUT)

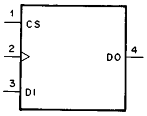


ANALOG BLOCK
APD 2
ICLK 22
AINL+ 3
AINL− 4
ACAL 5
AINR+ 26
AINR− 25
VOLTAGE REFERENCE
28 VREF+
27 VREF−
DAC
LP FILTER
DAC
LP FILTER
DIGITAL BLOCK
DECIMATION FILTER
DECIMATION FILTER
SERIAL OUTPUT I/F
14 SCLK
13 L/$\overline{R}$
16 FSYNC
15 SDATA
DPD 10
CLK 19
OCLK 20
CMODE 11
SMODE 12
CONTROLLER
9 DCAL
CALIBRATION S-RAM

CAT93C46KI

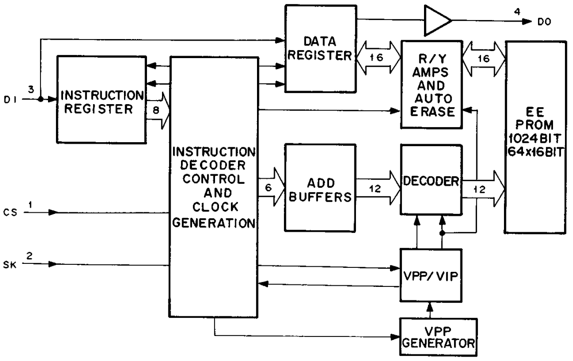
– TOP VIEW –


CS IN 1
SK IN 2
DI IN 3
DO OUT 4
VDD (+5V) 8
NC 7
NC 6
GND 5


1 CS
2
3 DI
DO 4

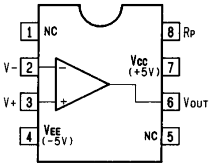
INPUT
CS ; CHIP SELECT
DI ; SERIAL DATA INPUT
SK ; SERIAL CLOCK

OUTPUT
DO ; SERIAL DATA OUTPUT


DI 3
INSTRUCTION REGISTER
8
DATA REGISTER
16
R/Y AMPS AND AUTO ERASE
16
4 DO
EE PROM 1024BIT 64x16BIT
INSTRUCTION DECODER CONTROL AND CLOCK GENERATION
6
ADD BUFFERS
12
DECODER
12
CS 1
SK 2
VPP/VIP
VPP GENERATOR

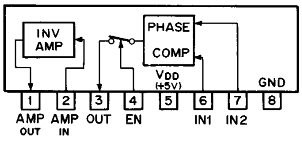
CLC505AJE (COMLINEAR) FLAT PACKAGE

OPERATIONAL AMPLIFIER
– TOP VIEW –


1 NC
V− 2
V+ 3
4 VEE (−5V)
8 RP
Vcc (+5V) 7
6 VOUT
NC 5
−
+

CX23065A (SONY)

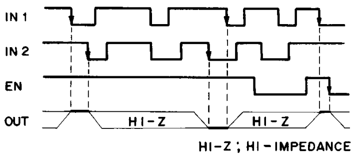
N-MOS PHASE COMPARATOR WITH INVERSION AMPLIFIER
– PRINTED SIDE VIEW –


INV AMP
PHASE COMP
VDD (+5V)
GND
1 AMP OUT
2 AMP IN
3 OUT
4 EN
5
6 IN1
7 IN2
8

EN	OUT
1	ACTIVE
0	HIGH IMPEDANCE

1 ; HIGH LEVEL
0 ; LOW LEVEL

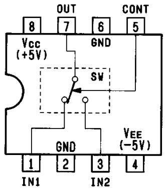
TIMING CHART

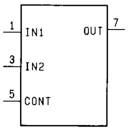


HI-Z ; HI-IMPEDANCE

CXA1450M (SONY) FLAT PACKAGE

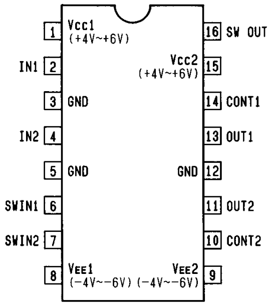
VIDEO SIGNAL SWITCH
– TOP VIEW –

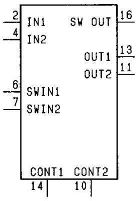

8
7 OUT
6
5 CONT
Vcc (+5V)
GND
SW
GND
VEE (−5V)
1 IN1
2
3 IN2
4


1 IN1
3 IN2
5 CONT
OUT 7

CXA1451M (SONY)

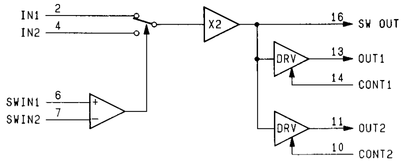
WIDEBAND VIDEO SWITCH
– TOP VIEW –


1 Vcc1 (+4V~+6V)
IN1 2
3 GND
IN2 4
5 GND
SWIN1 6
SWIN2 7
8 VEE1 (−4V~−6V)
16 SW OUT
Vcc2 (+4V~+6V) 15
14 CONT1
13 OUT1
GND 12
11 OUT2
10 CONT2
VEE2 (−4V~−6V) 9


2 IN1
4 IN2
SW OUT 16
OUT1 13
OUT2 11
6 SWIN1
7 SWIN2
CONT1 14
CONT2 10

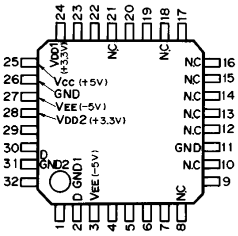
INPUT
CONT1, 2 ; POWER SAVE CONTROL PIN OF DRV.1 AND DRV.2
INT1, 2 ; 1/2-CHANNEL INPUT PIN
SWIN1, 2 ; IN1/IN2 PINS SWITCH CONTROL PIN

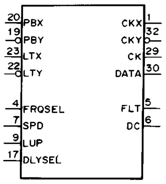
OUTPUT
OUT1, 2 ; OUTPUT PIN OF DRV.1/2
SWOUT ; OUTPUTS IN1 PIN OR IN2 PIN WHICH HAS BEEN SELECTED BY SWITCH.


IN1 2
IN2 4
X2
16 SW OUT
DRV
13 OUT1
14 CONT1
SWIN1 6
SWIN2 7
+
−
DRV
11 OUT2
10 CONT2

CXA1805Q (SONY)

PHASE LOCKED LOOP CIRCUIT
– TOP VIEW –


24 23 22 21 20 19 18 17
VDD1 (+3.3V)
NC
NC
25 26 27 28 29 30 31 32
Vcc (+5V)
GND
VEE (−5V)
VDD2 (+3.3V)
D GND2
D GND1
VEE (−5V)
NC
NC 16
NC 15
NC 14
NC 13
NC 12
GND 11
NC 10
9
1 2 3 4 5 6 7 8

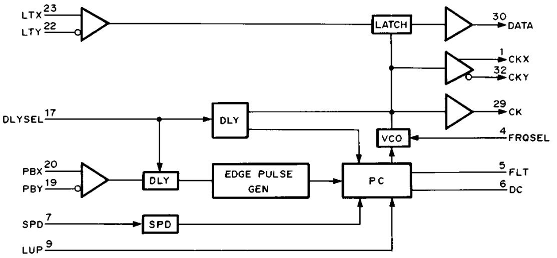

20 PBX
19 PBY
23 LTX
22 LTY
4 FRQSEL
7 SPD
9 LUP
17 DLYSEL
CKX 1
CKY 32
CK 29
DATA 30
FLT 5
DC 6

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	O	CKX	17	I	DLYSEL
2	–	D GND1	18	–	N.C
3	–	V_{EE}	19	I	PBY
4	I	FRQSEL	20	I	PBX
5	–	FLT	21	–	N.C
6	–	DC	22	I	LTY
7	I	SPD	23	I	LTX
8	–	N.C	24	–	$V_{DD}1$
9	I	LUP	25	–	V_{CC}
10	–	N.C	26	–	GND
11	–	GND	27	–	V_{EE}
12	–	N.C	28	–	$V_{DD}2$
13	–	N.C	29	O	CK
14	–	N.C	30	O	DATA
15	–	N.C	31	–	D GND2
16	–	N.C	32	O	CKY

INPUT
DLYSEL ; EDGE PULSE WIDTH SELECT
(H ≒ 2.5 ns, L ≒ 5 ns)
FRQSEL ; VCO OSCILLATION FREQUENCY SELECT
LTX ; LATCH INPUT (+)
LTY ; LATCH INPUT (−)
LUP ; PLL PULL-IN TIME CHANGE
PBX ; PLL INPUT (+)
PBY ; PLL INPUT (−)
SPD ; DETERMINATION OF FREE RUN FREQUENCY

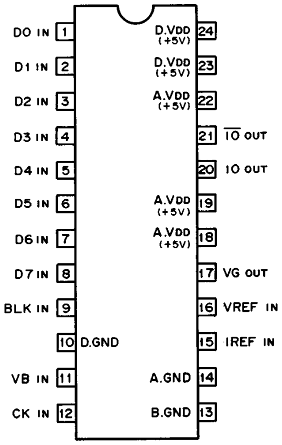
OUTPUT
CK ; CLOCK OUTPUT
CKX ; CLOCK OUTPUT (+)
CKY ; CLOCK OUTPUT (−)
DATA ; DATA OUTPUT

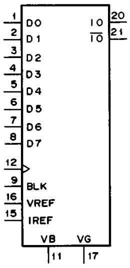
OTHER
DC ; CONNECT DECOUPLING FOR BIAS CIRCUIT
FLT ; CONNECT CONSTANT OF LOOP FILTER


LTX 23
LTY 22
LATCH
30 DATA
1 CKX
32 CKY
29 CK
DLYSEL 17
DLY
VCO
4 FRQSEL
PBX 20
PBY 19
DLY
EDGE PULSE GEN
PC
5 FLT
6 DC
SPD 7
SPD
LUP 9

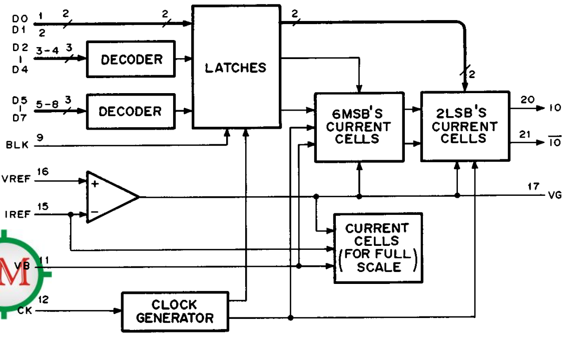
CXD1171M (SONY) FLAT PACKAGE

C-MOS 8-BIT D/A CONVERTER
– TOP VIEW –


D0 IN 1
D1 IN 2
D2 IN 3
D3 IN 4
D4 IN 5
D5 IN 6
D6 IN 7
D7 IN 8
BLK IN 9
10 D.GND
VB IN 11
CK IN 12
D.VDD (+5V) 24
D.VDD (+5V) 23
A.VDD (+5V) 22
21 IO OUT
20 IO OUT
A.VDD (+5V) 19
A.VDD (+5V) 18
17 VG OUT
16 VREF IN
15 IREF IN
A.GND 14
B.GND 13

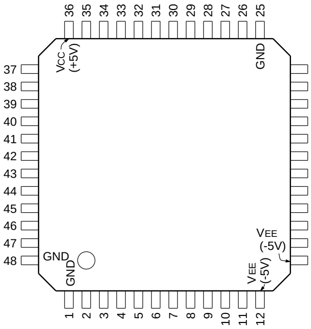

1 D0
2 D1
3 D2
4 D3
5 D4
6 D5
7 D6
8 D7
12
9 BLK
16 VREF
15 IREF
IO 20
IO 21
VB 11
VG 17

CK ; CLOCK INPUT
BLK ; BLANKING PULSE INPUT
D0 – 7 ; DIGITAL DATA INPUT
IO ; CURRENT OUTPUT
$\overline{\text{IO}}$; INVERT CURRENT OUTPUT
IREF ; CURRENT REFERENCE INPUT
VB, VG ; FOR CAPACITOR
VREF ; VOLTAGE REFERENCE INPUT


D0 D1 1 2
2
2
D2 D4 3-4 3
DECODER
D5 D7 5-8 3
DECODER
LATCHES
2
BLK 9
6MSB'S CURRENT CELLS
2LSB'S CURRENT CELLS
20 IO
21 IO
VREF 16
IREF 15
17 VG
CURRENT CELLS (FOR FULL SCALE)
VB 11
CK 12
CLOCK GENERATOR

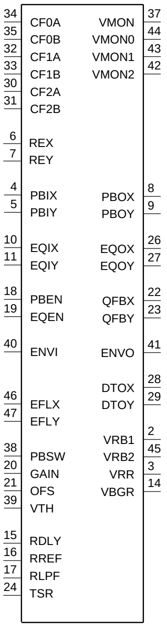
CXA3034Q (SONY)

BYPOLAR/SILICON MONOLITHIC IC
– TOP VIEW –


36 35 34 33 32 31 30 29 28 27 26 25
37 38 39 40 41 42 43 44 45 46 47 48
24 23 22 21 20 19 18 17 16 15 14 13
1 2 3 4 5 6 7 8 9 10 11 12
VCC (+5V)
GND
VEE (-5V)
GND
GND
VEE (-5V)

(VDD =+5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	–	GND	13	–	VEE (-5V)	25	–	GND	37	O	VMON
2	O	VRB1	14	O	VBGR	26	O	EQOX	38	I	PBSW
3	O	VRR	15	I	RDLY	27	O	EQOY	39	I	VTH
4	I	PBIX	16	I	RREF	28	O	DTOX	40	I	ENVI
5	I	PBIY	17	I	RLPF	29	O	DTOY	41	O	ENVO
6	I	REX	18	I	PBEN	30	I	CF2A	42	O	MON2
7	I	REY	19	I	EQEN	31	I	CF2B	43	O	MON1
8	O	PBOX	20	I	GAIN	32	I	CF1A	44	O	MON0
9	O	PBOY	21	I	OFS	33	I	CF1B	45	I	VRB2
10	I	EQIX	22	O	QFBX	34	I	CF0A	46	I	EFLX
11	I	EQIY	23	O	QFBY	35	I	CF0B	47	I	EFLY
12	–	VEE (-5V)	24	I	TSR	36	–	VCC (+5V)	48	–	GND

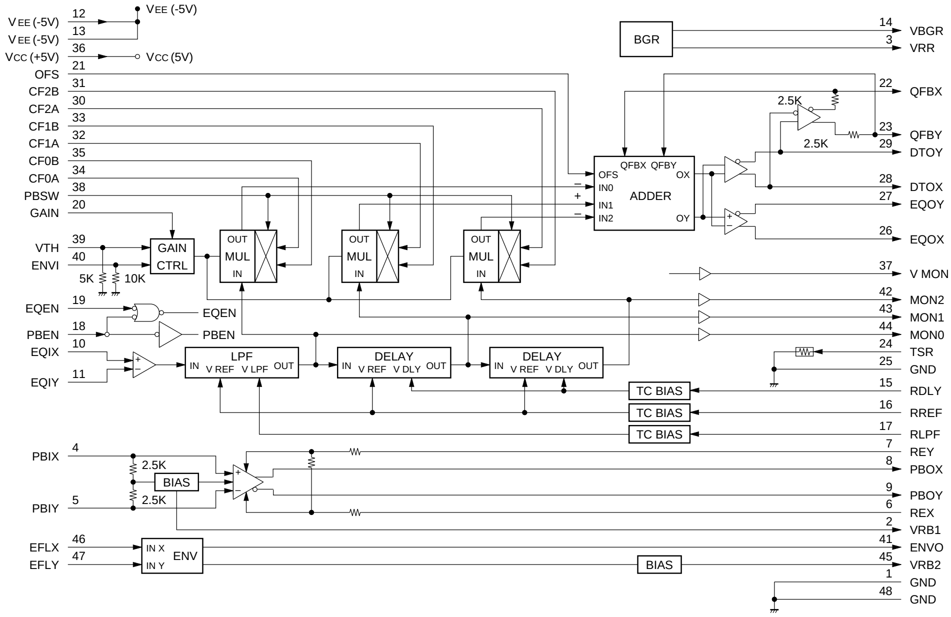

34 CF0A
35 CF0B
32 CF1A
33 CF1B
30 CF2A
31 CF2B
6 REX
7 REY
4 PBIX
5 PBIY
10 EQIX
11 EQIY
18 PBEN
19 EQEN
40 ENVI
46 EFLX
47 EFLY
38 PBSW
20 GAIN
21 OFS
39 VTH
15 RDLY
16 RREF
17 RLPF
24 TSR
VMON 37
VMON0 44
VMON1 43
VMON2 42
PBOX 8
PBOY 9
EQOX 26
EQOY 27
QFBX 22
QFBY 23
ENVO 41
DTOX 28
DTOY 29
VRB1 2
VRB2 45
VRR 3
VBGR 14

INPUT

CF0A,0B,1A,1B,2A,2B	; 3TAP FIR FILTER COEFFICIENT INPUT
EFLX,EFLY	; ENVELOPE DETECTOR DRIVE (X,Y)
ENVI	; AGC VOLTAGE
EQIX,EQIY	; EQUALIZER DRIVE (X,Y)
EQEN	; ENABLE INPUT
GAIN	; GAIN (EQUALIZER)
OFS	; OFF SET CONTROL (DC SERVO FEEDBACK INPUT)
PBEN	; ENABLE INPUT
PBIX,PBIY	; PREAMP DRIVE (X,Y)
PB SW	; 3TAP FIR FILTER COEFFICIENT SELECT
RDLY	; ACTIVE DELAY BIAS RESISTER
REX,REY	; PREAMP GAIN SELECT (X,Y) (NORMALLY SHORT)
RLPF	; ACTIVE LPF BIAS RESISTER
RREF	; ACTIVE DELAY/LPF BIAS RESISTER
TSR	; CHIP THERMAL DETECT RESISTER
VTH	; AGC GAIN LIMITTER

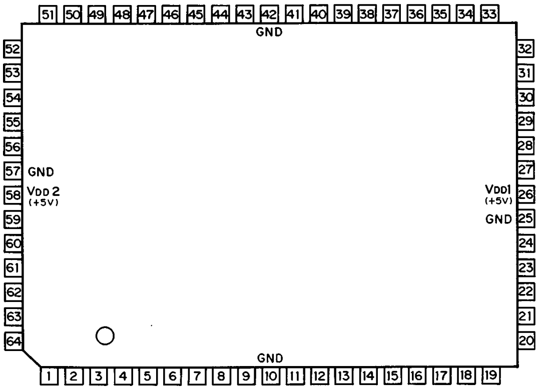
OUTPUT

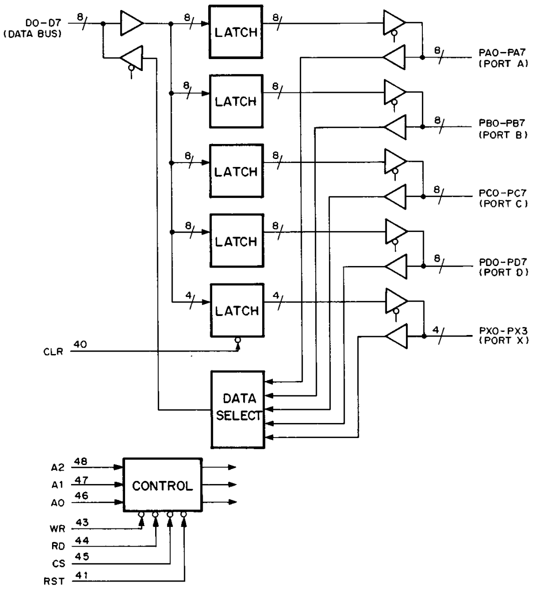
DTOX,DTOY	; ZERO CROSS CONPARATOR ECL DRIVE (X,Y)
ENVO	; ENVELOPE DETECTOR
EQOX,EQOY	; EQUALIZER DRIVE (X,Y)
PBOX,PBOY	; PREAMP DRIVE (X,Y)
QFBX,QFBY	; QFB FILTER (X,Y)
VBGR	; BAND GAP REFERENCE VOLTAGE
VMON	; MONITOR OUT REFERENCE VOLTAGE
VMON0	; MONITOR OUT (ACTIVE LPF)
VMON1	; MONITOR OUT (ACTIVE DELAY1)
VMON2	; MONITOR OUT (ACTIVE DELAY2)
VRB1	; PREAMP REFERENCE VOLTAGE
VRB2	; ENVEROPE DETECTOR REFERENCE VOLTAGE
VRR	; EQUALIZER REFERENCE VOLTAGE


VEE (-5V) 12
VEE (-5V) 13
VCC (+5V) 36
OFS 21
CF2B 31
CF2A 30
CF1B 33
CF1A 32
CF0B 35
CF0A 34
PBSW 38
GAIN 20
VEE (-5V)
VCC (5V)
VTH 39
ENVI 40
5K
10K
GAIN CTRL
OUT MUL IN
EQEN 19
PBEN 18
EQIX 10
EQIY 11
EQEN
PBEN
LPF
IN V REF V LPF OUT
DELAY
IN V REF V DLY OUT
BGR
ADDER
OFS IN0 IN1 IN2 QFBX QFBY OX OY
2.5K
TC BIAS
PBIX 4
PBIY 5
2.5K
BIAS
EFLX 46
EFLY 47
IN X IN Y ENV
BIAS
14 VBGR
3 VRR
22 QFBX
23 QFBY
29 DTOY
28 DTOX
27 EQOY
26 EQOX
37 V MON
42 MON2
43 MON1
44 MON0
24 TSR
25 GND
15 RDLY
16 RREF
17 RLPF
7 REY
8 PBOX
9 PBOY
6 REX
2 VRB1
41 ENVO
45 VRB2
1 GND
48 GND

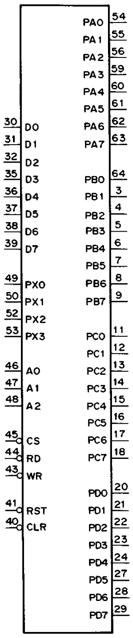
CXD1095Q (SONY) FLAT PACKAGE

C-MOS I/O PORT EXPANDER
– TOP VIEW –


51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33
GND
52 53 54 55 56 57 58 59 60 61 62 63 64
GND
VDD 2
(+5V)
32 31 30 29 28 27 26 25 24 23 22 21 20
VDD1
(+5V)
GND
GND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19


D0–D7
(DATA BUS)
8
LATCH
LATCH
LATCH
LATCH
LATCH
8
4
PA0–PA7
(PORT A)
PB0–PB7
(PORT B)
PC0–PC7
(PORT C)
PD0–PD7
(PORT D)
PX0–PX3
(PORT X)
CLR 40
DATA SELECT
CONTROL
A2 48
A1 47
A0 46
WR 43
RD 44
CS 45
RST 41

PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1			NC	17	○	○	PC6	33			NC	49	○	○	PX0
2			NC	18	○	○	PC7	34			NC	50	○	○	PX1
3	○	○	PB1	19			NC	35	○	○	D3	51			NC
4	○	○	PB2	20	○	○	PD0	36	○	○	D4	52	○	○	PX2
5	○	○	PB3	21	○	○	PD1	37	○	○	D5	53	○	○	PX3
6	○	○	PB4	22	○	○	PD2	38	○	○	D6	54	○	○	PA0
7	○	○	PB5	23	○	○	PD3	39	○	○	D7	55	○	○	PA1
8	○	○	PB6	24	○	○	PD4	40	○		CLR	56	○	○	PA2
9	○	○	PB7	25			GND	41	○		RST	57			GND
10			GND	26	○		VDD (+5V)	42			GND	58	○		VDD (+5V)
11	○	○	PC0	27	○	○	PD5	43	○		WR	59	○	○	PA3
12	○	○	PC1	28	○	○	PD6	44	○		RD	60	○	○	PA4
13	○	○	PC2	29	○	○	PD7	45	○		CS	61	○	○	PA5
14	○	○	PC3	30	○	○	D0	46	○		A0	62	○	○	PA6
15	○	○	PC4	31	○	○	D1	47	○		A1	63	○	○	PA7
16	○	○	PC5	32	○	○	D2	48	○		A2	64	○	○	PB0


30 D0
31 D1
32 D2
35 D3
36 D4
37 D5
38 D6
39 D7
49 PX0
50 PX1
52 PX2
53 PX3
46 A0
47 A1
48 A2
45 CS
44 RD
43 WR
41 RST
40 CLR
PA0 54
PA1 55
PA2 56
PA3 59
PA4 60
PA5 61
PA6 62
PA7 63
PB0 64
PB1 3
PB2 4
PB3 5
PB4 6
PB5 7
PB6 8
PB7 9
PC0 11
PC1 12
PC2 13
PC3 14
PC4 15
PC5 16
PC6 17
PC7 18
PD0 20
PD1 21
PD2 22
PD3 23
PD4 24
PD5 27
PD6 28
PD7 29

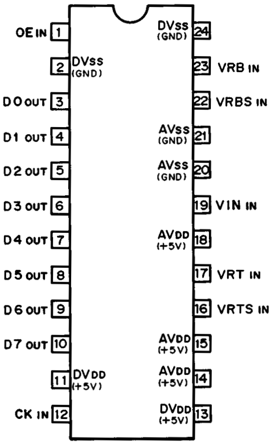
CS	RD	WR	A2	A1	A0	MODE
0	0	1	0	0	0	PORT A → DATA BUS
0	0	1	0	0	1	PORT B → DATA BUS
0	0	1	0	1	0	PORT C → DATA BUS
0	0	1	0	1	1	PORT D → DATA BUS
0	0	1	1	0	0	PORT X → DATA BUS
0	0	1	1	0	1	——
0	0	1	1	1	0	——
0	0	1	1	1	1	——
0	1	0	0	0	0	DATA BUS → PORT A
0	1	0	0	0	1	DATA BUS → PORT B
0	1	0	0	1	0	DATA BUS → PORT C
0	1	0	0	1	1	DATA BUS → PORT D
0	1	0	1	0	0	DATA BUS → PORT X
0	1	0	1	0	1	——
0	1	0	1	1	0	DATA BUS → CTL REG.1
0	1	0	1	1	1	DATA BUS → CTL REG.2
1	X	X	X	X	X	DATA BUS ; HI–Z

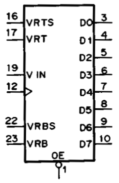
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI–Z , HIGH IMPEDANCE

D0–D7 ; DATA BUS INPUTS/OUTPUTS
CS ; CHIP SELECT INPUT
RD ; READ STROBE INPUT
WR ; WRITE STROBE INPUT
A0–A2 ; ADDRESS INPUT
RST ; RESET INPUT
CLR ; CLEAR INPUT
PA0–PA7 ; PORT A INPUTS/OUTPUTS
PB0–PB7 ; PORT B INPUTS/OUTPUTS
PC0–PC7 ; PORT C INPUTS/OUTPUTS
PD0–PD7 ; PORT D INPUTS/OUTPUTS
PX0–PX3 ; PORT X INPUTS/OUTPUTS

CXD1175AM (SONY) FLAT PACKAGE

C-MOS 8-BIT 20MSPS VIDEO A/D CONVERTER
– TOP VIEW –

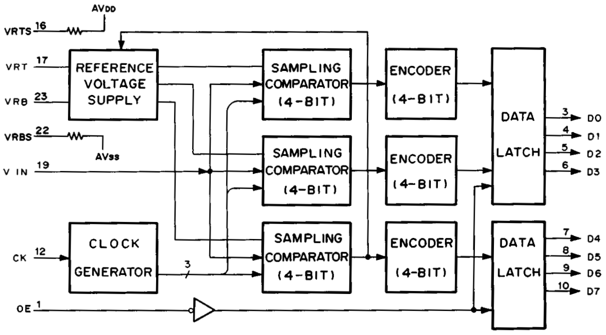

OE IN 1
2 DVss (GND)
D0 OUT 3
D1 OUT 4
D2 OUT 5
D3 OUT 6
D4 OUT 7
D5 OUT 8
D6 OUT 9
D7 OUT 10
11 DVDD (+5V)
CK IN 12
DVss (GND) 24
23 VRB IN
22 VRBS IN
AVss (GND) 21
AVss (GND) 20
19 VIN IN
AVDD (+5V) 18
17 VRT IN
16 VRTS IN
AVDD (+5V) 15
AVDD (+5V) 14
DVDD (+5V) 13


16 VRTS
17 VRT
19 V IN
12
22 VRBS
23 VRB
D0 3
D1 4
D2 5
D3 6
D4 7
D5 8
D6 9
D7 10
OE
1

AV_{DD} : ANALOG POWER SUPPLY
AV_{SS} : ANALOG GROUND
CK : CLOCK INPUT
D0 – 7 : DIGITAL DATA OUTPUTS (LSB to MSB)
DV_{DD} : DIGITAL POWER SUPPLY
DV_{SS} : DIGITAL GROUND
OE : OUTPUT ENABLE
(OE = HIGH ; HIGH IMPEDANCE)
VIN : ANALOG VOLTAGE INPUT
VRB : BOTTOM REFERENCE VOLTAGE INPUT
VRBS : AS SHORT-CIRCUIT AT VRB. GENERATES + 0.6V
VRT : TOP REFERENCE VOLTAGE INPUT
VRTS : AS SHORT-CIRCUIT AT VRT. GENERATES + 2.6V

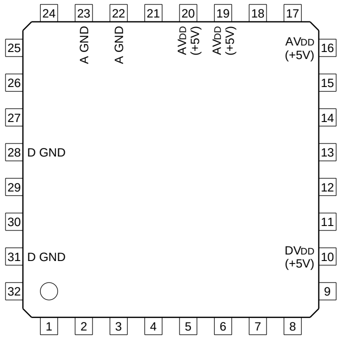
STEP	INPUT SIGNAL VOLTAGE	DATA OUTPUTS							
		D7	D6	D5	D4	D3	D2	D1	D0
0	0V (VRT)	1	1	1	1	1	1	1	1
1	0.01V	1	1	1	1	1	1	1	0
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
127	1.34V	1	0	0	0	0	0	0	0
128	1.35V	0	1	1	1	1	1	1	1
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
255	2.7V (VRB)	0	0	0	0	0	0	0	0

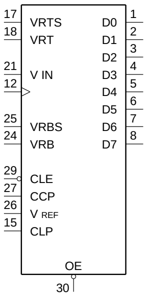
0 : LOW LEVEL
1 : HIGH LEVEL


AVDD
VRTS 16
VRT 17
VRB 23
VRBS 22
AVss
V IN 19
CK 12
OE 1
REFERENCE VOLTAGE SUPPLY
CLOCK GENERATOR
3
SAMPLING COMPARATOR (4-BIT)
SAMPLING COMPARATOR (4-BIT)
SAMPLING COMPARATOR (4-BIT)
ENCODER (4-BIT)
ENCODER (4-BIT)
ENCODER (4-BIT)
DATA LATCH
DATA LATCH
3 D0
4 D1
5 D2
6 D3
7 D4
8 D5
9 D6
10 D7

CXD2302Q (SONY)

C-MOS 8-BIT 50MSPS VIDEO A/D CONVERTER
– TOP VIEW –


24 23 22 21 20 19 18 17
A GND
A GND
AVDD (+5V)
AVDD (+5V)
AVDD (+5V) 16
25 26 27
28 D GND
29 30
31 D GND
32
15 14 13 12 11
DVDD (+5V) 10
9
1 2 3 4 5 6 7 8


17 VRTS
18 VRT
21 V IN
12
25 VRBS
24 VRB
29 CLE
27 CCP
26 V REF
15 CLP
D0 1
D1 2
D2 3
D3 4
D4 5
D5 6
D6 7
D7 8
OE
30

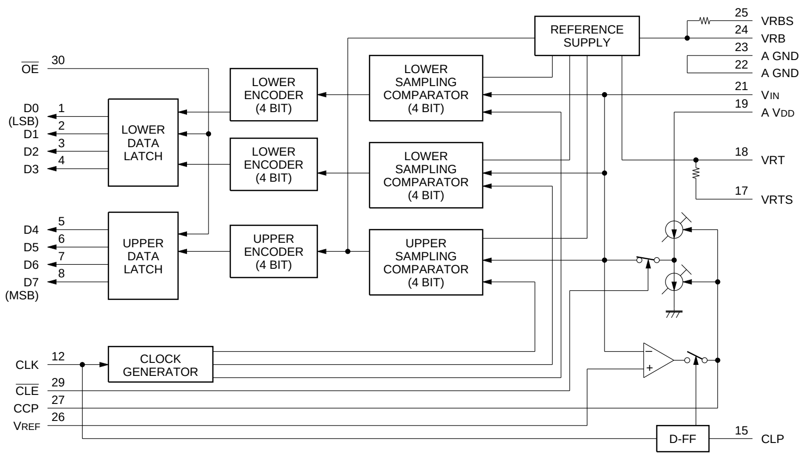
PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	O	D0 (LSB)	17	I	VRTS
2	O	D1	18	I	VRT
3	O	D2	19	–	A V_{DD}
4	O	D3	20	–	A V_{DD}
5	O	D4	21	I	V IN
6	O	D5	22	–	A GND
7	O	D6	23	–	A GND
8	O	D7 (MSB)	24	I	VRB
9	–	TEST	25	I	VRBS
10	–	D V_{DD}	26	I	V_{REF}
11	–	TEST	27	I	CCP
12	I	CLK	28	–	D GND
13	–	NC	29	I	$\overline{\text{CL}}$
14	–	NC	30	I	$\overline{\text{OE}}$
15	I	CLP	31	–	D GND
16	–	A V_{DD}	32	–	NC

INPUT

CCP ; CLAMP CONTROL VOLTAGE FOR INTEGRATOR
$\overline{\text{CLE}}$; CLAMP ENABLE
CLK ; CLOCK
CLP ; CLAMP PULSE
$\overline{\text{OE}}$; OUTPUT ENABLE
V IN ; ANALOG
VRB ; REFERENCE VOLTAGE (BOTTOM)
VRBS ; SELF REFERENCE VOLTAGE SHORT TO AGND (+0.6 V/BOTTOM)
V_{REF} ; VOLTAGE REFERENCE FOR CLAMP
VRT ; REFERENCE VOLTAGE (TOP)
VRTS ; SELF REFERENCE VOLTAGE SHORT TO AV_{DD} (+2.5 V/TOP)

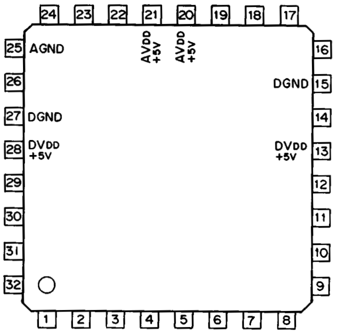
OUTPUT

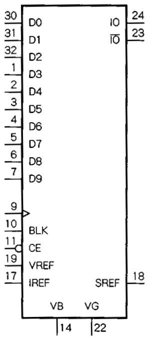
D0-D7 ; DATA


OE 30
D0 (LSB) 1
D1 2
D2 3
D3 4
D4 5
D5 6
D6 7
D7 (MSB) 8
LOWER DATA LATCH
UPPER DATA LATCH
LOWER ENCODER (4 BIT)
LOWER ENCODER (4 BIT)
UPPER ENCODER (4 BIT)
LOWER SAMPLING COMPARATOR (4 BIT)
LOWER SAMPLING COMPARATOR (4 BIT)
UPPER SAMPLING COMPARATOR (4 BIT)
REFERENCE SUPPLY
25 VRBS
24 VRB
23 A GND
22 A GND
21 VIN
19 A VDD
18 VRT
17 VRTS
CLK 12
CLE 29
CCP 27
VREF 26
CLOCK GENERATOR
D-FF
15 CLP

CXD2306Q (SONY)

C-MOS 10-BIT 75MSPS 1CH D/A CONVERTER
– TOP VIEW –

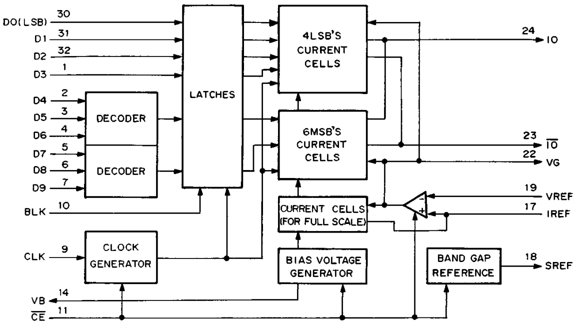

AGND
AVDD +5V
AVDD +5V
DGND
DGND
DVDD +5V
DVDD +5V
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32


D0 D1 D2 D3 D4 D5 D6 D7 D8 D9
BLK
CE
VREF
IREF
SREF
IO
IO
VB
VG
30 31 32 1 2 3 4 5 6 7 9 10 11 19 17 24 23 18 14 22

(A.VDD, D.VDD = + 5V)

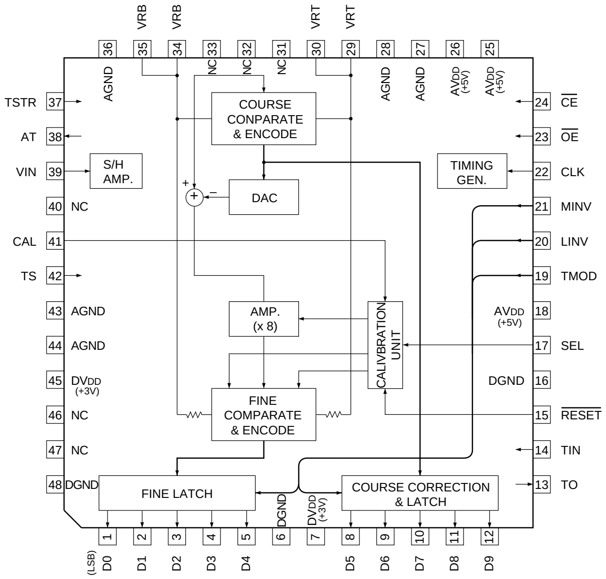
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	D3	17	I	IREF
2	I	D4	18	O	SREF
3	I	D5	19	I	VREF
4	I	D6	20	–	A.VDD
5	I	D7	21	–	A.VDD
6	I	D8	22	O	VG
7	I	D9 (MSB)	23	O	$\overline{IO}$
8	–	NC	24	O	IO
9	I	CK	25	–	A.GND
10	I	BLK	26	–	NC
11	I	$\overline{CE}$	27	–	D.GND
12	–	NC	28	–	D.VDD
13	–	D.VDD	29		NC
14	O	VB	30	I	D0 (LSB)
15	–	D.GND	31	I	D1
16	–	NC	32	I	D2

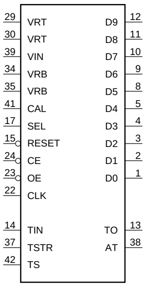
$\overline{CE}$	; CHIP ENABLE
CK	; CLOCK INPUT
BLK	; BLANKING PULSE INPUT
D0 – 7	; DIGITAL DATA INPUT
IO	; CURRENT OUTPUT
$\overline{IO}$	; INVERT CURRENT OUTPUT
IREF	; CURRENT REFERENCE INPUT
SREF	; INDEPENDENT CONSTANT VOLTAGE OUTPUT
VB, VG	; FOR CAPACITOR
VREF	; VOLTAGE REFERENCE INPUT


D0(LSB) 30
D1 31
D2 32
D3 1
D4 2
D5 3
D6 4
D7 5
D8 6
D9 7
BLK 10
CLK 9
VB 14
CE 11
DECODER
DECODER
LATCHES
4LSB'S CURRENT CELLS
6MSB'S CURRENT CELLS
CURRENT CELLS (FOR FULL SCALE)
CLOCK GENERATOR
BIAS VOLTAGE GENERATOR
BAND GAP REFERENCE
24 IO
23 IO
22 VG
19 VREF
17 IREF
18 SREF

CXD2310R (SONY)

C-MOS 10-BIT 20MSPS VIDEO A/D CONVERTER
– TOP VIEW –


VRB
VRB
VRT
VRT
36 35 34 33 32 31 30 29 28 27 26 25
AGND
NC
NC
NC
AGND
AGND
AVDD (+5V)
AVDD (+5V)
TSTR 37
AT 38
VIN 39
40 NC
CAL 41
TS 42
43 AGND
44 AGND
45 DVDD (+3V)
46 NC
47 NC
48 DGND
24 CE
23 OE
22 CLK
21 MINV
20 LINV
19 TMOD
AVDD (+5V) 18
17 SEL
DGND 16
15 RESET
14 TIN
13 TO
COURSE CONPARATE & ENCODE
S/H AMP.
DAC
TIMING GEN.
AMP. (x 8)
CALIVBRATION UNIT
FINE COMPARATE & ENCODE
FINE LATCH
COURSE CORRECTION & LATCH
DGND
DVDD (+3V)
1 2 3 4 5 6 7 8 9 10 11 12
(LSB) D0
D1
D2
D3
D4
D5
D6
D7
D8
D9


29 VRT
30 VRT
39 VIN
34 VRB
35 VRB
41 CAL
17 SEL
15 RESET
24 CE
23 OE
22 CLK
14 TIN
37 TSTR
42 TS
D9 12
D8 11
D7 10
D6 9
D5 8
D4 5
D3 4
D2 3
D1 2
D0 1
TO 13
AT 38

INPUT

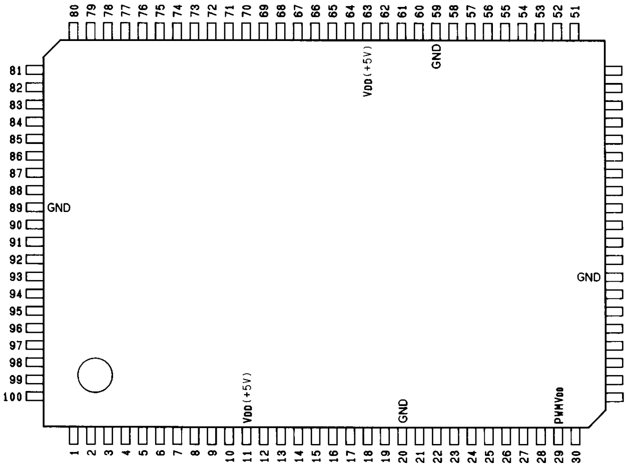
CAL	; CALIBRATION PULSE INPUT
CE	; CHIP ENABLE
CLK	; CLOCK
LINV	; OUTPUT (D0-D8) INVERSION
MINV	; OUTPUT (D9) INVERSION
OE	; DIGITAL DATA OUTPUT ENABLE
RESET	; CALIBRATION CIRCUIT RESET
SEL	; OUTPUT DATA (D5-D9) SELECT FOR CALIBRATION (4-CLOCK) HIGH; THROUGH OUTPUT, LOW; DATA FIXED AS WITH D0-D4
TIN	; TEST SIGNAL INPUT
TMOD	; TEST MODE
TS	; TEST SIGNAL INPUT
TSTR	; TEST SIGNAL INPUT
VRB	; REFERENCE BOTTOM VOLTAGE
VRT	; REFERENCE TOP VOLTAGE

OUTPUT

AT	; TEST SIGNAL OUTPUT
D0-D9	; DIGIRAL DATA OUTPUT
TO	; TEST PIN

CXD2202Q (SONY)

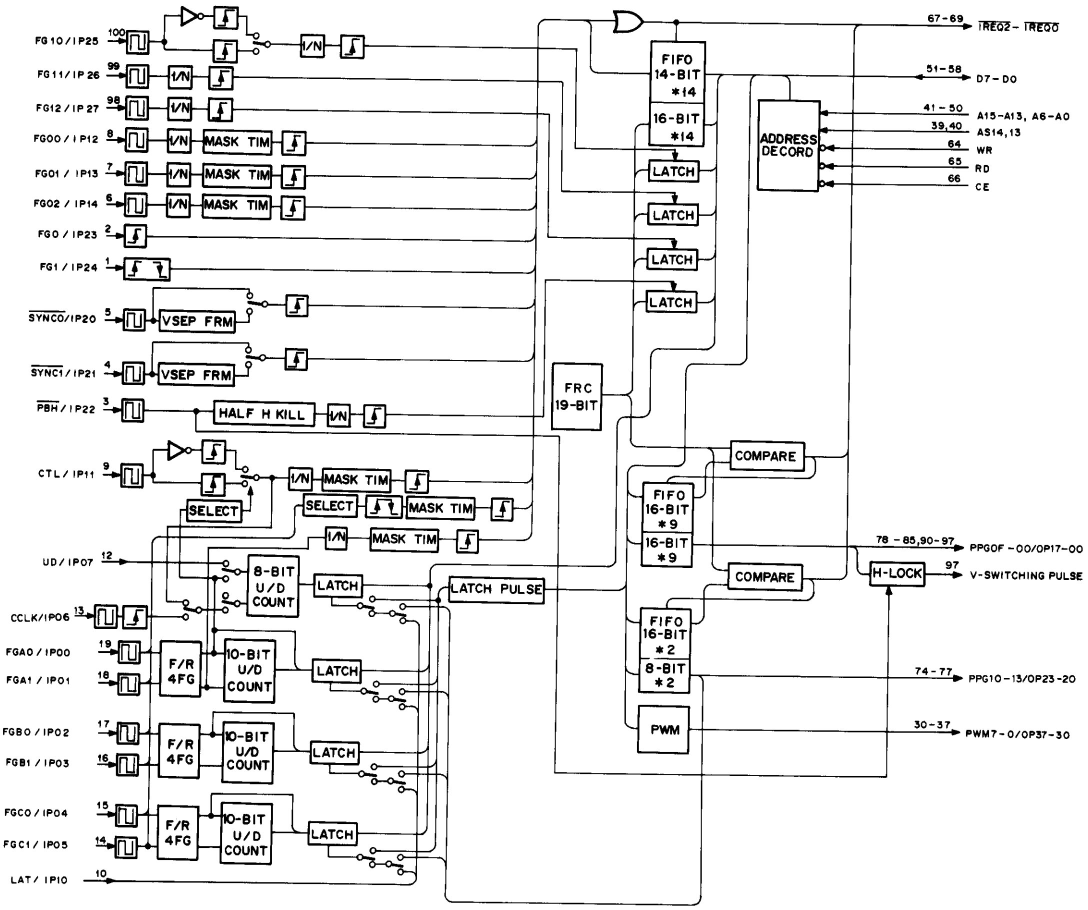
SERVO IC
– TOP VIEW –



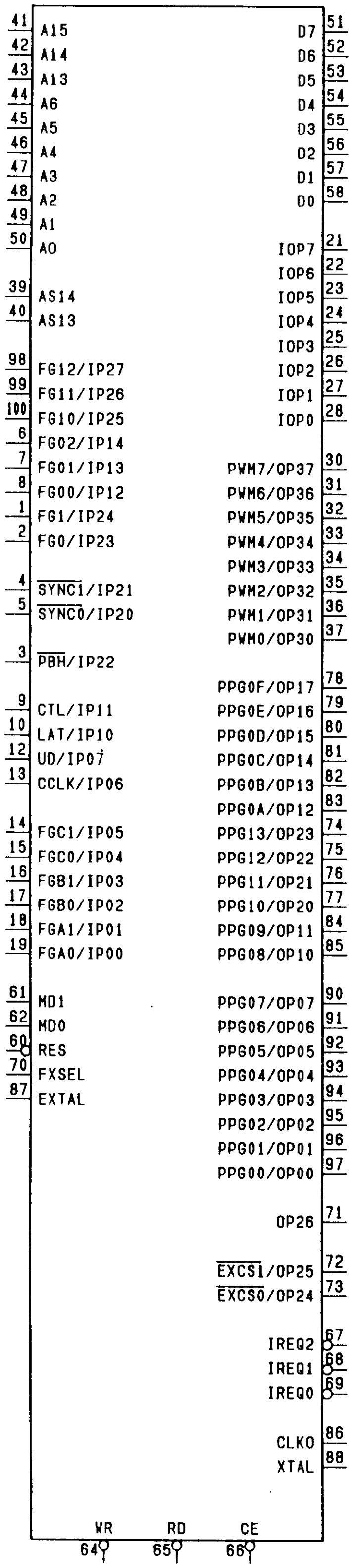
1–30
31–50
51–80
81–100
GND
VDD (+5V)
GND
VDD (+5V)
GND
PWMVDD
GND

(VDD = + 5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	FG1/IP24	26	I/O	IOP2	51	I/O	D7	76	O	PPG11/OP21
2	I	FG0/IP23	27	I/O	IOP1	52	I/O	D6	77	O	PPG10/OP20
3	I	$\overline{\text{PBH}}$/IP22	28	I/O	IOP0	53	I/O	D5	78	O	PPG0F/OP17
4	I	$\overline{\text{SYNC1}}$/IP21	29	–	PWM VDD	54	I/O	D4	79	O	PPG0E/OP16
5	I	$\overline{\text{SYNC0}}$/IP20	30	O	PWM7/OP37	55	I/O	D3	80	O	PPG0D/OP15
6	I	FG02/IP14	31	O	PWM6/OP36	56	I/O	D2	81	O	PPG0C/OP14
7	I	FG01/IP13	32	O	PWM5/OP35	57	I/O	D1	82	O	PPG0B/OP13
8	I	FG00/IP12	33	O	PWM4/OP34	58	I/O	D0	83	O	PPG0A/OP12
9	I	CTL/IP11	34	O	PWM3/OP33	59	–	GND	84	O	PPG09/OP11
10	I	LAT/IP10	35	O	PWM2/OP32	60	I	$\overline{\text{RES}}$	85	O	PPG08/OP10
11	–	VDD	36	O	PWM1/OP31	61	I	MD1	86	O	CLKO
12	I	UD/IP07	37	O	PWM0/OP30	62	I	MD0	87	I	EXTAL
13	I	CCLK/IP06	38	–	GND	63	–	VDD	88	O	XTAL
14	I	FGC1/IP05	39	I	AS14	64	I	$\overline{\text{WR}}$	89	–	GND
15	I	FGC0/IP04	40	I	AS13	65	I	$\overline{\text{RD}}$	90	O	PPG07/OP07
16	I	FGB1/IP03	41	I	A15	66	I	$\overline{\text{CE}}$	91	O	PPG06/OP06
17	I	FGB0/IP02	42	I	A14	67	O	$\overline{\text{IREQ2}}$	92	O	PPG05/OP05
18	I	FGA1/IP01	43	I	A13	68	O	$\overline{\text{IREQ1}}$	93	O	PPG04/OP04
19	I	FGA0/IP00	44	I	A6	69	O	$\overline{\text{IREQ0}}$	94	O	PPG03/OP03
20	–	GND	45	I	A5	70	I	FXSEL	95	O	PPG02/OP02
21	I/O	IOP7	46	I	A4	71	O	OP26	96	O	PPG01/OP01
22	I/O	IOP6	47	I	A3	72	O	$\overline{\text{EXCS1}}$/OP25	97	O	PPG00/OP00
23	I/O	IOP5	48	I	A2	73	O	$\overline{\text{EXCS0}}$/OP24	98	I	FG12/IP27
24	I/O	IOP4	49	I	A1	74	O	PPG13/OP23	99	I	FG11/IP26
25	I/O	IOP3	50	I	A0	75	O	PPG12/OP22	100	I	FG10/IP25



FG10/IP25 100
FG11/IP26 99
FG12/IP27 98
FG00/IP12 8
FG01/IP13 7
FG02/IP14 6
FG0/IP23 2
FG1/IP24 1
SYNC0/IP20 5
SYNC1/IP21 4
PBH/IP22 3
CTL/IP11 9
UD/IP07 12
CCLK/IP06 13
FGA0/IP00 19
FGA1/IP01 18
FGB0/IP02 17
FGB1/IP03 16
FGC0/IP04 15
FGC1/IP05 14
LAT/IP10 10
1/N
MASK TIM
VSEP FRM
HALF H KILL
SELECT
8-BIT U/D COUNT
10-BIT U/D COUNT
F/R 4FG
LATCH
LATCH PULSE
FRC 19-BIT
FIFO 14-BIT *14
16-BIT *14
FIFO 16-BIT *9
16-BIT *9
FIFO 16-BIT *2
8-BIT *2
PWM
COMPARE
H-LOCK
ADDRESS DECORD
67-69 IREQ2 - IREQ0
51-58 D7-D0
41-50 A15-A13, A6-A0
39,40 AS14,13
64 WR
65 RD
66 CE
78-85,90-97 PPG0F-00/OP17-00
97 V-SWITCHING PULSE
74-77 PPG10-13/OP23-20
30-37 PWM7-0/OP37-30


41 A15
42 A14
43 A13
44 A6
45 A5
46 A4
47 A3
48 A2
49 A1
50 A0
39 AS14
40 AS13
98 FG12/IP27
99 FG11/IP26
100 FG10/IP25
6 FG02/IP14
7 FG01/IP13
8 FG00/IP12
1 FG1/IP24
2 FG0/IP23
4 SYNC1/IP21
5 SYNC0/IP20
3 PBH/IP22
9 CTL/IP11
10 LAT/IP10
12 UD/IP07
13 CCLK/IP06
14 FGC1/IP05
15 FGC0/IP04
16 FGB1/IP03
17 FGB0/IP02
18 FGA1/IP01
19 FGA0/IP00
61 MD1
62 MD0
60 RES
70 FXSEL
87 EXTAL
D7 51
D6 52
D5 53
D4 54
D3 55
D2 56
D1 57
D0 58
IOP7 21
IOP6 22
IOP5 23
IOP4 24
IOP3 25
IOP2 26
IOP1 27
IOP0 28
PWM7/OP37 30
PWM6/OP36 31
PWM5/OP35 32
PWM4/OP34 33
PWM3/OP33 34
PWM2/OP32 35
PWM1/OP31 36
PWM0/OP30 37
PPG0F/OP17 78
PPG0E/OP16 79
PPG0D/OP15 80
PPG0C/OP14 81
PPG0B/OP13 82
PPG0A/OP12 83
PPG13/OP23 74
PPG12/OP22 75
PPG11/OP21 76
PPG10/OP20 77
PPG09/OP11 84
PPG08/OP10 85
PPG07/OP07 90
PPG06/OP06 91
PPG05/OP05 92
PPG04/OP04 93
PPG03/OP03 94
PPG02/OP02 95
PPG01/OP01 96
PPG00/OP00 97
OP26 71
EXCS1/OP25 72
EXCS0/OP24 73
IREQ2 67
IREQ1 68
IREQ0 69
CLKO 86
XTAL 88
WR 64
RD 65
CE 66

INPUT

A0 – A15	; ADDRESS BUS
AS13, AS14	; SELECTING CONDITION OF ADDRESS DECODER AS13 AND AS14 BITS
CCLK	; 8-BIT COUNTER CLOCK INPUT
CE	; CHIP ENABLE
CTL	; RESOLUTION 2.5MHz WITH EDGE SELECT FUNCTION. WITH FREQUENCY DIVISION MASK TIMER
EXTAL	; CRYSTAL OSCILLATION OR EXTERNAL CLOCK INPUT
FG0	; RESOLUTION 2.5MHz
FG00 – FG02	; FREQUENCY DIVISION ENABLE RESOLUTION 2.5MHz. WITH FREQUENCY DIVISION MASK TIMER
FG1	; RESOLUTION 2.5MHz BOTH EDGES
FG10	; EDGE SELECTION ENABLE RESOLUTION 10MHz
FG11, 12	; FREQUENCY DIVISION ENABLE RESOLUTION 10MHz
FGA0	; PERFORMS FORWARD/REVERSE ROTATION DETECTION AND 4FG COUNT (UP/DOWN) BY FGA0 AND FGA1. 10 BITS. UP/DOWN IS MADE BY CONTROLLING THE UP/DOWN OF 8-BIT COUNTER.
FGA1	; 4FG PERFORMS FREQUENCY DIVISION AND FRC CAPTURE THROUGH MASK TIMER. * 1 : SELECTS ONE OF FGA0 TO FGC1 INPUT AND DETECTS BOTH EDGES AND PERFORM THE FRC CAPTURE THROUGH THE MASK TIMER.
FGB0	; PERFORMS FORWARD/REVERSE ROTATION DETECTION AND 4FG COUNT BY FGB0 AND FGB1.
FGB1	; * 1 : SELECTS ONE OF FGA0 TO FGC1 INPUT AND DETECTS BOTH EDGES AND PERFORM THE FRC CAPTURE THROUGH THE MASK TIMER.
FGC0	; PERFORMS FORWARD/REVERSE ROTATION DETECTION AND 4FG COUNT BY FGC0 AND FGC1.
FGC1	; * 1 : SELECTS ONE OF FGA0 TO FGC1 INPUT AND DETECTS BOTH EDGES AND PERFORM THE FRC CAPTURE THROUGH THE MASK TIMER.
FXSEL	; FREQUENCY DIVISION SELECTION OF CLOCK INPUT
LAT	; EXTERNAL LATCH TIMING OF UP/DOWN COUNTER
MD0, 1	; TEST MODE DESIGNATION
PBH	; INPUT OF COMPOSITE SYNC OR H SYNC. RESOLUTION 10MHz. WITH HALF H KILLER.
RD	; REDE
RES	; RESET
SYNC0, 1	; INPUT OF COMPOSITE SYNC OR V SYNC. RESOLUTION 2.5MHz.
UD	; 8-BIT COUNTER UP/DOWN INPUT
WR	; WRITE

OUTPUT

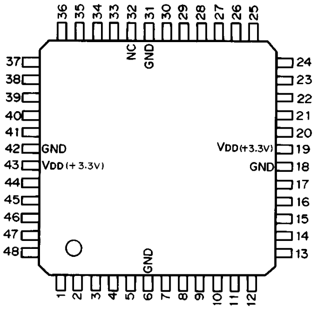
CLKO	; CLOCK OUTPUT
EXCS0, 1	; DECODE AT ADDRESS A3 LEVEL
IREQ0	; INTERRUPTION SIGNAL OF FRC CAPTURE UNIT
IREQ1	; COINCIDENCE INTERRUPTION OF PPG0
IREQ2	; COINCIDENCE INTERRUPTION OF PPG1
OP26	; EXCLUSIVELY OUTPUT PORT
PPG00 – PPG0F	
PPG10 – PPG13	; PROGRAMMABLE PULSE GENERATOR RESOLUTION 1.25MHz PPG00 : WITH HLOCK
PWM0 – PWM5	; PWM OUTPUT NORMALLY PWM, OR PWM0 AND PWM1, PWM2 AND PWM3, OR PWM4 AND PWM5 OUTPUT SIGNAL CORRESPONDED TO PUSH-PULL.
PWM6, 7	; PWM OUTPUT
XTAL	; CRYSTAL OSCILLATION

INPUT/OUTPUT

D0 – D7	; DATA BUS
IOP0 – IOP7	; SELECTS AND USES INPUT AND OUTPUT BY EVERY 1 BIT.

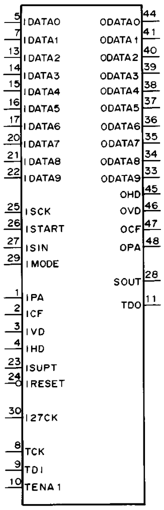
CXD303-101Q (SONY)

C-MOS SETUP ADD/REMOVE
– TOP VIEW –


36 35 34 33 32 31 30 29 28 27 26 25
NC
GND
37
38
39
40
41
42 GND
43 VDD (+3.3V)
44
45
46
47
48
24
23
22
21
20
VDD (+3.3V) 19
GND 18
17
16
15
14
13
GND
1 2 3 4 5 6 7 8 9 10 11 12

(VDD = + 3.3V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	IPA	13	I	IDATA2	25	I	ISCK	37	O	ODATA5
2	I	ICF	14	I	IDATA3	26	I	ISTART	38	O	ODATA4
3	I	IVD	15	I	IDATA4	27	I	ISIN	39	O	ODATA3
4	I	IHD	16	I	IDATA5	28	O	SOUT	40	O	ODATA2
5	I	IDATA0	17	I	IDATA6	29	I	IMODE	41	O	ODATA1
6	–	GND	18	–	GND	30	I	I27CK	42	–	GND
7	I	IDATA1	19	–	V_{DD}	31	–	GND	43	–	V_{DD}
8	I	TCK	20	I	IDATA7	32	–	NC	44	O	ODATA0
9	I	TDI	21	I	IDATA8	33	O	ODATA9	45	O	OHD
10	I	TENA1	22	I	IDATA9	34	O	ODATA8	46	O	OVD
11	O	TDO	23	I	ISUPT	35	O	ODATA7	47	O	OCF
12	–	VST	24	I	$\overline{\text{IRESET}}$	36	O	ODATA6	48	O	OPA

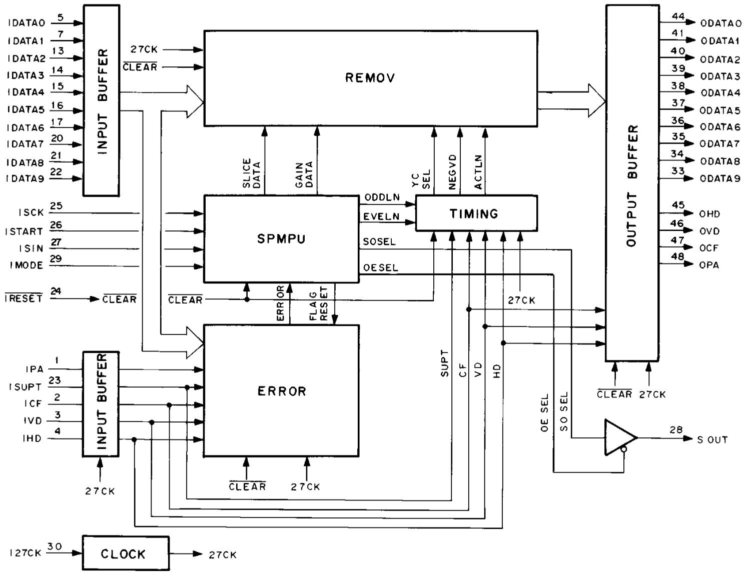

5 IDATA0
7 IDATA1
13 IDATA2
14 IDATA3
15 IDATA4
16 IDATA5
17 IDATA6
20 IDATA7
21 IDATA8
22 IDATA9
25 ISCK
26 ISTART
27 ISIN
29 IMODE
1 IPA
2 ICF
3 IVD
4 IHD
23 ISUPT
24 IRESET
30 I27CK
8 TCK
9 TDI
10 TENA1
ODATA0 44
ODATA1 41
ODATA2 40
ODATA3 39
ODATA4 38
ODATA5 37
ODATA6 36
ODATA7 35
ODATA8 34
ODATA9 33
OHD 45
OVD 46
OCF 47
OPA 48
SOUT 28
TDO 11

INPUT

I27CK ; SYSTEM CLOCK (27MHz)
ICF ; COLOR FRAMING DATA
IDATA0-IDATA9
; 4 : 2 : 2 PARALLEL DATA
IHD ; HD
IMODE ; SERIAL COMMUNICATION FORMAT SELECT
(1 : ANALOG TBC PLAYBACK COMMUNICATION FORMAT,
0 : DIGITAL β CAM RECORD COMMUNICATION FORMAT)
IPA ; PARITIY DATA
IRESET ; SYSTEM RESET
ISCK ; SERIAL COMMUNICATION CLOCK
ISIN ; SERIAL COMMUNICATION DATA
ISTART ; SERIAL COMMUNICATION START PULSE
ISURT ; HALF H BLANKING TIMING PULSE
IVD ; VD
TCK ; SMART CHECK TERMINAL
TDI ; SMART CHECK TERMINAL
TENA1 ; SMART CHECK TERMINAL

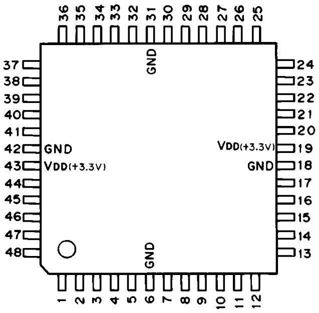
OUTPUT

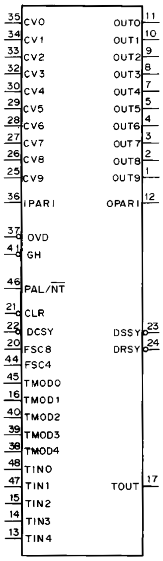
OCF ; COLOR FRAMING DATA
ODATA0-ODATA9
; 4 : 2 : 2 PARALLEL DATA
OHD ; HD
OPA ; PARITY DATA
OVD ; VD
SOUT ; SERIAL COMMUNICATION DATA
TDO ; SMART CHECK TERMINAL


IDATA0 5
IDATA1 7
IDATA2 13
IDATA3 14
IDATA4 15
IDATA5 16
IDATA6 17
IDATA7 20
IDATA8 21
IDATA9 22
INPUT BUFFER
27CK
CLEAR
REMOV
OUTPUT BUFFER
44 ODATA0
41 ODATA1
40 ODATA2
39 ODATA3
38 ODATA4
37 ODATA5
36 ODATA6
35 ODATA7
34 ODATA8
33 ODATA9
45 OHD
46 OVD
47 OCF
48 OPA
SLICE DATA
GAIN DATA
YC SEL
NEGVD
ACTLN
ISCK 25
ISTART 26
ISIN 27
IMODE 29
SPMPU
ODDLN
EVELN
SOSEL
OESEL
TIMING
IRESET 24 CLEAR
CLEAR
ERROR
FLAG RESET
27CK
IPA 1
ISUPT 23
ICF 2
IVD 3
IHD 4
INPUT BUFFER
ERROR
27CK
CLEAR 27CK
SUPT
CF
VD
HD
OE SEL
SO SEL
CLEAR 27CK
28 S OUT
I27CK 30
CLOCK
27CK

CXD304-106Q (SONY)

C-MOS 10-BIT PEDESTAL LEVEL REPLACEMENT OF COMPOSITE SIGNAL
– TOP VIEW –


36 35 34 33 32 31 30 29 28 27 26 25
37
38
39
40
41
42 GND
43 VDD(+3.3V)
44
45
46
47
48
24
23
22
21
20
VDD(+3.3V) 19
GND 18
17
16
15
14
13
GND
GND
1 2 3 4 5 6 7 8 9 10 11 12

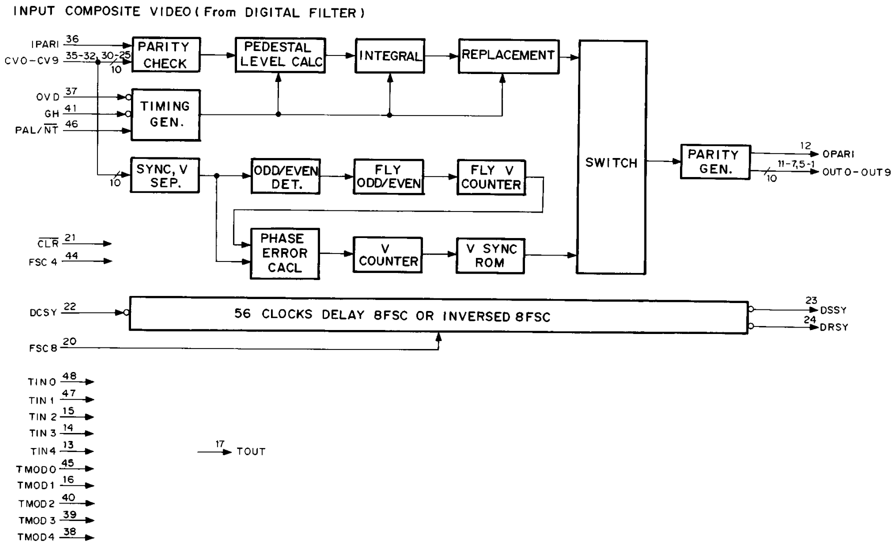

35 CV0
34 CV1
33 CV2
32 CV3
30 CV4
29 CV5
28 CV6
27 CV7
26 CV8
25 CV9
36 IPARI
37 OVD
41 GH
46 PAL/NT
21 CLR
22 DCSY
20 FSC8
44 FSC4
45 TMOD0
16 TMOD1
40 TMOD2
39 TMOD3
38 TMOD4
48 TIN0
47 TIN1
15 TIN2
14 TIN3
13 TIN4
OUT0 11
OUT1 10
OUT2 9
OUT3 8
OUT4 7
OUT5 5
OUT6 4
OUT7 3
OUT8 2
OUT9 1
OPARI 12
DSSY 23
DRSY 24
TOUT 17

INPUT
CLR ; POWER ON RESET
CV0 – CV9 ; 10-BIT COMPOSITE DATA
DCSY ; ANALOG SYNC
FSC4 ; 4fsc CLOCK
FSC8 ; 8fsc CLOCK
GH ; GH (GATED H) FROM CXD8819AQ
IPARI ; PARITY OF INPUT DATA
OVD ; OUTPUT VD FROM CXD8819AQ
PAL/$\overline{\text{NT}}$; H : PAL, L : NTSC
TIN0 – TIN4 ; TEST PIN : OPEN
TMOD0 – TMOD4; TEST PIN : OPEN

OUTPUT
DRSY ; ANALOG DELAYED SYNC ($\overline{\text{8fsc}}$; 56-CLOCK)
DSSY ; ANALOG DELAYED SYNC (8fsc ; 56-CLOCK)
OPARI ; PARITY OF OUTPUT DATA
OUT0 – OUT9 ; 10-BIT COMPOSITE DATA
TOUT ; TEST PIN

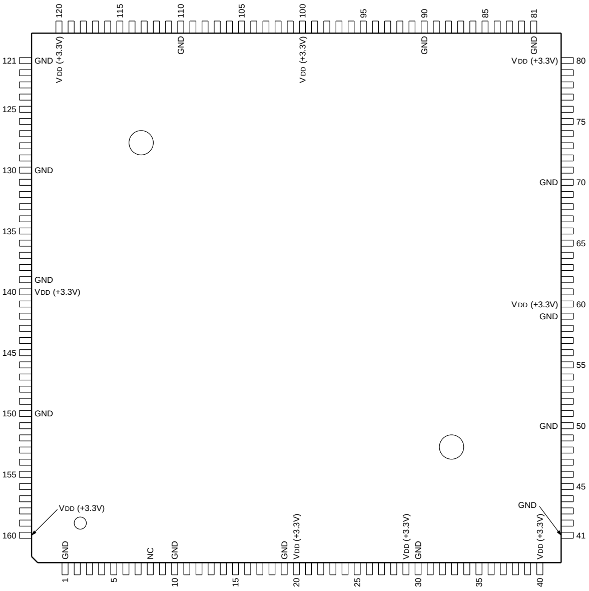
(V_{DD} = + 3.3V)

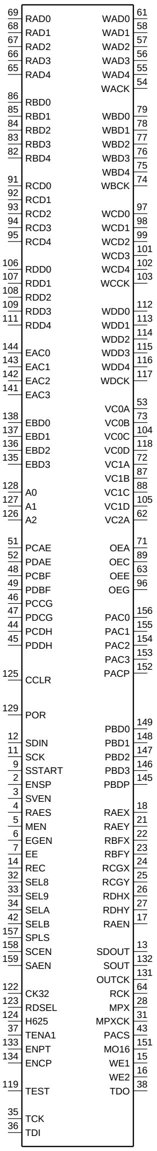
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	O	OUT9	13	I	TIN4	25	I	CV9	37	I	$\overline{\text{OVD}}$
2	O	OUT8	14	I	TIN3	26	I	CV8	38	I	TMOD4
3	O	OUT7	15	I	TIN2	27	I	CV7	39	I	TMOD3
4	O	OUT6	16	I	TMOD1	28	I	CV6	40	I	TMOD2
5	O	OUT5	17	O	TOUT	29	I	CV5	41	I	$\overline{\text{GH}}$
6	–	GND	18	–	GND	30	I	CV4	42	–	GND
7	O	OUT4	19	–	V_{DD}	31	–	GND	43	–	V_{DD}
8	O	OUT3	20	I	FSC8	32	I	CV3	44	I	FSC4
9	O	OUT2	21	I	$\overline{\text{CLR}}$	33	I	CV2	45	I	TMOD0
10	O	OUT1	22	I	$\overline{\text{DCSY}}$	34	I	CV1	46	I	PAL/$\overline{\text{NT}}$
11	O	OUT0	23	O	$\overline{\text{DSSY}}$	35	I	CV0	47	I	TIN1
12	O	OPARI	24	O	$\overline{\text{DRSY}}$	36	I	IFARI	48	I	TIN0


INPUT COMPOSITE VIDEO (From DIGITAL FILTER)
IPARI 36
CV0-CV9 35-32, 30-25
10
PARITY CHECK
PEDESTAL LEVEL CALC
INTEGRAL
REPLACEMENT
OVD 37
GH 41
PAL/NT 46
TIMING GEN.
SYNC, V SEP.
10
ODD/EVEN DET.
FLY ODD/EVEN
FLY V COUNTER
SWITCH
PARITY GEN.
12 OPARI
11-7,5-1
10
OUT0-OUT9
CLR 21
FSC 4 44
PHASE ERROR CACL
V COUNTER
V SYNC ROM
DCSY 22
56 CLOCKS DELAY 8FSC OR INVERSED 8FSC
23 DSSY
24 DRSY
FSC8 20
TIN0 48
TIN 1 47
TIN 2 15
TIN 3 14
TIN4 13
TMOD0 45
TMOD1 16
TMOD2 40
TMOD 3 39
TMOD4 38
17 TOUT

CXD306-138Q (SONY)

C-MOS DATA RATE CONVERTER
– TOP VIEW –


120
115
110
105
100
95
90
85
81
GND
VDD (+3.3V)
GND
VDD (+3.3V)
GND
GND
VDD (+3.3V)
80
121
125
75
130
GND
70
GND
135
65
GND
140
VDD (+3.3V)
VDD (+3.3V)
60
GND
145
55
150
GND
GND
50
155
45
VDD (+3.3V)
GND
160
41
GND
NC
GND
GND
VDD (+3.3V)
VDD (+3.3V)
GND
VDD (+3.3V)
1
5
10
15
20
25
30
35
40


69 RAD0
68 RAD1
67 RAD2
66 RAD3
65 RAD4
86 RBD0
85 RBD1
84 RBD2
83 RBD3
82 RBD4
91 RCD0
92 RCD1
93 RCD2
94 RCD3
95 RCD4
106 RDD0
107 RDD1
108 RDD2
109 RDD3
111 RDD4
144 EAC0
143 EAC1
142 EAC2
141 EAC3
138 EBD0
137 EBD1
136 EBD2
135 EBD3
128 A0
127 A1
126 A2
51 PCAE
52 PDAE
48 PCBF
49 PDBF
46 PCCG
47 PDCG
44 PCDH
45 PDDH
125 CCLR
129 POR
12 SDIN
11 SCK
9 SSTART
2 ENSP
3 SVEN
4 RAES
5 MEN
6 EGEN
7 EE
14 REC
32 SEL8
33 SEL9
34 SELA
42 SELB
157 SPLS
158 SCEN
159 SAEN
122 CK32
123 RDSEL
124 H625
37 TENA1
133 ENPT
134 ENCP
119 TEST
35 TCK
36 TDI
WAD0 61
WAD1 58
WAD2 57
WAD3 56
WAD4 55
WACK 54
WBD0 79
WBD1 78
WBD2 77
WBD3 76
WBD4 75
WBCK 74
WCD0 97
WCD1 98
WCD2 99
WCD3 101
WCD4 102
WCCK 103
WDD0 112
WDD1 113
WDD2 114
WDD3 115
WDD4 116
WDCK 117
VC0A 53
VC0B 73
VC0C 104
VC0D 118
VC1A 72
VC1B 87
VC1C 88
VC1D 105
VC2A 62
OEA 71
OEC 89
OEE 63
OEG 96
PAC0 156
PAC1 155
PAC2 154
PAC3 153
PACP 152
PBD0 149
PBD1 148
PBD2 147
PBD3 146
PBDP 145
RAEX 18
RAEY 21
RBFX 22
RBFY 23
RCGX 24
RCGY 25
RDHX 26
RDHY 27
RAEN 17
SDOUT 13
SOUT 132
OUTCK 131
RCK 64
MPX 28
MPXCK 31
MO16 151
WE1 15
WE2 16
TDO 38

(V DD=+3.3V)

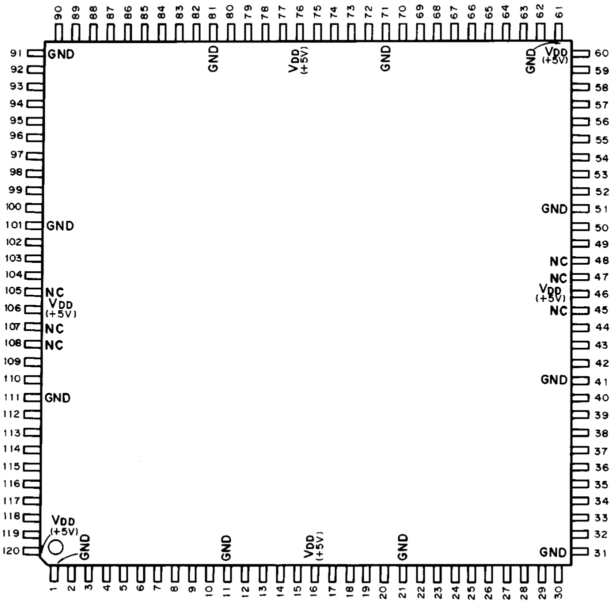
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	–	GND	41	–	GND	81	–	GND	121	–	GND
2	I	ENSP	42	I	SELB	82	I	RBD4	122	I	CK32
3	I	SVEN	43	O	PACS	83	I	RBD3	123	I	RDSEL
4	I	RAES	44	I	PCDH	84	I	RBD2	124	I	H625
5	I	MEN	45	I	PDDH	85	I	RBD1	125	I	CCLR
6	I	EGEN	46	I	PCCG	86	I	RBD0	126	I	A2
7	I	EE	47	I	PDCG	87	O	VC1B	127	I	A1
8	–	NC	48	I	PCBF	88	O	VC1C	128	I	A0
9	I	SSTART	49	I	PDBF	89	O	OEC	129	I	POR
10	–	GND	50	–	GND	90	–	GND	130	–	GND
11	I	SCK	51	I	PCAE	91	I	RCD0	131	O	OUTCK
12	I	SDIN	52	I	PDAE	92	I	RCD1	132	O	SOUT
13	O	SDOUT	53	O	VC0A	93	I	RCD2	133	I	ENPT
14	I	REC	54	O	WACK	94	I	RCD3	134	I	ENCP
15	O	WE1	55	O	WAD4	95	I	RCD4	135	I	EBD3
16	O	WE2	56	O	WAD3	96	O	OEG	136	I	EBD2
17	O	RAEN	57	O	WAD2	97	O	WCD0	137	I	EBD1
18	O	RAEX	58	O	WAD1	98	O	WCD1	138	I	EBD0
19	–	GND	59	–	GND	99	O	WCD2	139	–	GND
20	–	VDD	60	–	VDD	100	–	VDD	140	–	VDD
21	O	RAEY	61	O	WAD0	101	O	WCD3	141	I	EAC3
22	O	RBFX	62	O	VC2A	102	O	WCD4	142	I	EAC2
23	O	RBFY	63	O	OEE	103	O	WCCK	143	I	EAC1
24	O	RCGX	64	O	RCK	104	O	VC0C	144	I	EAC0
25	O	RCGY	65	I	RAD4	105	O	VC1D	145	O	PBDP
26	O	RDHX	66	I	RAD3	106	I	RDD0	146	O	PBD3
27	O	RDHY	67	I	RAD2	107	I	RDD1	147	O	PBD2
28	O	MPX	68	I	RAD1	108	I	RDD2	148	O	PBD1
29	–	VDD	69	I	RAD0	109	I	RDD3	149	O	PBD0
30	–	GND	70	–	GND	110	–	GND	150	–	GND
31	O	MPXCK	71	O	OEA	111	I	RDD4	151	O	MO16
32	I	SEL8	72	O	VC1A	112	O	WDD0	152	O	PACP
33	I	SEL9	73	O	VC0B	113	O	WDD1	153	O	PAC3
34	I	SELA	74	O	WBCK	114	O	WDD2	154	O	PAC2
35	I	TCK	75	O	WBD4	115	O	WDD3	155	O	PAC1
36	I	TDI	76	O	WBD3	116	O	WDD4	156	O	PAC0
37	I	TENA1	77	O	WBD2	117	O	WDCK	157	I	SPLS
38	O	TDO	78	O	WBD1	118	O	VC0D	158	I	SCEN
39	–	VST	79	O	WBD0	119	I	TEST	159	I	SAEN
40	–	VDD	80	–	VDD	120	–	VDD	160	–	VDD

INPUT
A0-A2 ; IC ADDRESS
CCLR ; COUNTER CLEAR
CK32 ; 32MHz CLOCK
EAC0-3 ; ENCODE A/C DATA
EBD0-3 ; ENCODE B/D DATA
EE ; BYPASS
EGEN ; EDIT GAP ENABLE
ENCP ; ENCODE
ENPT ; ENCODE ENABLE PARITY
ENSP ; ENCODER START PULSE
H625 ; H:625 MODE
MEN ; MPX ENABLE
PCAE ; PB A/E CLOCK
PCBF ; PB B/F CLOCK
PCCG ; PB C/G CLOCK
PCDH ; PB D/H CLOCK
PDAE ; PB A/E DATA
PDBF ; PB B/F DATA
PDCG ; PB C/G DATA
PDDH ; PB D/H DATA
POR ; RESET
RAD0-4 ; MEMORY (A) READ DATA
RAES ; REC A/E SELECT
RBD0-4 ; MEMORY (B) READ DATA
RCD0-4 ; MEMORY (C) READ DATA
RDD0-4 ; MEMORY (D) READ DATA
RDSEL ; REC DATA SELECT
REC ; L:REC MODE
SAEN : SAT A/E ENABLE
SCEN : SAT C/G ENABLE
SCK ; SERIAL CLOCK
SDIN ; SERIAL DATA IN
SEL8 ; PB A/E SELECT
SEL9 ; PB B/F SELECT
SELA ; PB C/G SELECT
SELB ; PB D/H SELECT
SPLS ; START PULSE
SSTART ; SERIAL START
SVEN ; SERVO REC ENABLE
TCK ; TEST CLOCK
TDI ; TEST DATA
TENA1 ; TEST ENABLE
TEST ; TEST

OUTPUT
MO16 ; 16MHz CLOCK OUT
MPX ; MPX DATA
MPXCK ; MPX CLOCK
OEA,OEC,OEE,OEG ; MEMORY OUTPUT ENABLE
OUTCK ; SERIAL OUT CLOCK
PAC0-3 ; PB A/C DATA
PACP ; PB A/C PARITY
PACS ; PB A/C SELECT
PBD0-3 ; PB B/D DATA
PBDP ; PB B/D PARITY
RAEN ; REC A ENABLE
RAEX,RAEY ; REC A/E DATA
RBFX.RBFY ; REC B/F DATA
RCGX.RCGY ; REC C/G DATA
RCK ; MEMORY READ CLOCK
RDHX,RDHY ; REC D/H DATA
SOUT ; SERIAL OUT DATA
SDOUT ; SERIAL DATA
TDO ; TEST DATA
VC0A-D ; MEMORY VCLR0
VC1A-D ; MEMORY VCLR1
VC2A ; MEMORY VCLR2
WACK ; MEMORY (A) WRITE CLOCK
WAD0-4 ; MEMORY (A) WRITE DATA
WBCK ; MEMORY (B) WRITE CLOCK
WBD0-4 ; MEMORY (B) WRITE DATA
WCCK ; MEMORY (C) WRITE CLOCK
WCD0-4 ; MEMORY (C) WRITE DATA
WDCK ; MEMORY (D) WRITE CLOCK
WDD0-4 ; MEMORY (D) WRITE DATA
WE1,WE2 ; MEMORY WRITE ENABLE

CXD8280AQ (SONY)

C-MOS DIGITAL AUDIO TIME BASE EXPANSION FOR SIF RECEIVER
– TOP VIEW –


GND
GND
VDD (+5V)
GND
GND
VDD (+5V)
GND
NC
NC
VDD (+5V)
NC
GND
GND
NC
VDD (+5V)
NC
NC
NC
GND
VDD (+5V)
GND
GND
VDD (+5V)
GND
GND

(VDD = + 5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	–	GND	31	–	GND	61	–	GND	91	–	GND
2	IU	IT1	32	OT	C3/4	62	IU	OECRD	92	IU	AUX0 (LSB)
3	IU	CLR	33	OT	C1/2	63	IU	CRA0 (LSB)	93	IU	AUX1
4	OT	DLY5 (MSB)	34	OT	U3/4	64	IU	CRA1	94	IU	AUX2
5	OT	DLY4	35	OT	U1/2	65	IU	CRA2	95	IU	AUX3
6	OT	DLY3	36	OT	V3/4	66	IU	CRA3	96	IU	AUX4
7	OT	DLY2	37	OT	V1/2	67	IU	CRA4	97	IU	AUX5
8	OT	DLY1	38	OT	AD3/4	68	IU	CRA5	98	IU	AUX6
9	OT	DLY0 (LSB)	39	OT	AD1/2	69	IU	CRA6 (MSB)	99	IU	AUX7
10	IU	OEDLY	40	ID	OEAD	70	IU	CREN	100	IU	AUX8
11	–	GND	41	–	GND	71	–	GND	101	–	GND
12	IU	IT2	42	ID	BCK	72	O	ERR1	102	IU	AUX9 (MSB)
13	IU	IT3	43	IU	LRCK	73	O	ERR2	103	IU	ADFT
14	IU	IT4	44	O	OT2	74	O	ERR3	104	IU	10/9
15	IU	IT5	45	–	NC	75	O	ERR4	105	–	NC
16	–	VDD	46	–	VDD	76	–	VDD	106	–	VDD
17	IU	MUTE4	47	–	NC	77	O	EXT1	107	–	NC
18	IU	MUTE3	48	–	NC	78	O	EXT2	108	–	NC
19	IU	MUTE2	49	IU	IT6	79	O	EXT3	109	IU	TRS
20	IU	MUTE1	50	IU	CRCK	80	O	EXT4	110	ID	VCK
21	–	GND	51	–	GND	81	–	GND	111	–	GND
22	IU	CHEX1	52	OT	CRD7 (MSB)	82	OT	DIDPER	112	IU	D2/D1
23	IU	CHEX0	53	OT	CRD6	83	OT	DIDERR	113	IU	DID1
24	IU	AFS	54	OT	CRD5	84	OT	DBNPER	114	IU	DID0
25	IU	LRS	55	OT	CRD4	85	OT	DBNERR	115	IU	ERDB
26	IU	DIR	56	OT	CRD3	86	OT	DCPER	116	IU	IT7
27	IU	20/16	57	OT	CRD2	87	OT	DCERR	117	IU	IT8
28	O	OT1	58	OT	CRD1	88	OT	UDPER	118	O	OT3
29	OT	Z3/4	59	OT	CRD0 (LSB)	89	OT	CSERR	119	O	WRDL
30	OT	Z1/2	60	OT	VDD	90	IU	OEERR	120	–	VDD

IU ; INPUT WITH PULL-UP REGISTER
ID ; INPUT WITH PULL-DOWN REGISTER
OT ; TRI-STATE OUTPUT

INPUT (WITH PULL-DOWN REGISTER)

BCK ; DIGITAL AUDIO BIT CLOCK (= 64 × Fs)
OEAD ; OUTPUT ENABLE FOR PINS 29 THROUGH 39 (L)
VCK ; VIDEO CLOCK (= 4Fsc)

INPUT (WITH PULL-UP REGISTER)

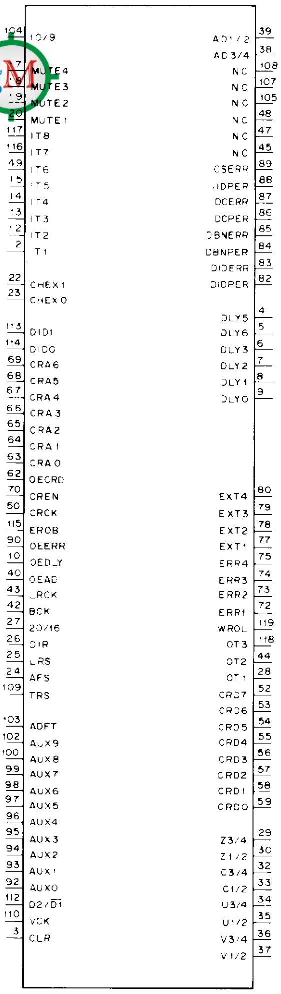
10/9 ; INPUT AUX. DATA 10-BIT/9-BIT MODE SELECT
20/16 ; DIGITAL AUDIO 20-BIT/16-BIT SELECT
ADFT ; AUX. DATA FLAG TIMING
AFS ; DIGITAL AUDIO FORMAT SELECT
CHEX1 ; CHANNEL EXCHANGE 1
AUX0 – AUX9 ; AUX. DATA0 – 9
CHEX0,1 ; CHANNEL EXCHANGE 0,1
CLR ; POWER ON CLEAR (L)
CRA0 – CRA6 ; CHANNEL STATUS READ ADDRESS0 – 6
CRCK ; CHANNEL STATUS READ ADDRESS WRITE CLOCK
CREN ; CHANNEL STATUS READ ADDRESS WRITE ENABLE (L)
D2/D1 ; VIDEO FORMAT D2/D1 SELECT
DID0,1 ; DATA ID BIT 0,1
DIR ; DIGITAL AUDIO MSB FIRST/LSB FIRST SELECT
ERDB ; ERROR OVERRIDE FOR CIRCUIT DEBUG
IT1 – 8 ; TEST (L)
LRCK ; DIGITAL AUDIO L/R CLOCK (= Fs)
LRS ; DIGITAL AUDIO LEFT/RIGHT BIT POSITION SELECT
MUTE1 – MUTE4 ; DIGITAL AUDIO CH1 – CH4 MUTE (L)
OECRD ; OUTPUT ENABLE FOR CRD0-7
OEDLY ; OUTPUT ENABLE FOR DLY0 – 5 (L)
OEERR ; OUTPUT ENABLE FOR PINS 82 THROUGH 89
TRS ; VIDEO H-SYNC

OUTPUT

ERR1 – ERR4 ; DIGITAL AUDIO CH1 – CH4 ERROR (L)
EXT1 – EXT4 ; DIGITAL AUDIO CH1 – CH4 EXIST
OT1 ; TEST (MEMORY READ)
OT2 ; TEST (READ CLEAR)
OT3 ; TEST (MEMORY WRITE)
WRDL ; TEST (WRITE/READ DELAY)

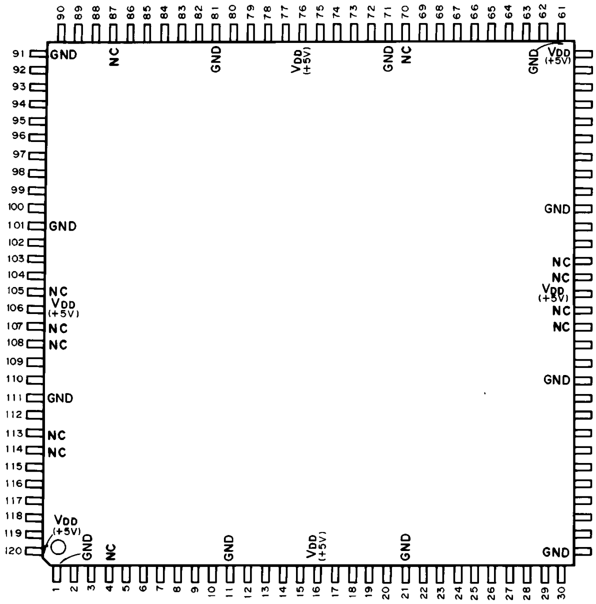
OUTPUT (TRI-STATE)

AD1/2 ; DIGITAL AUDIO CH-1/2 DATA
AD3/4 ; DIGITAL AUDIO CH-3/4 DATA
C1/2 ; DIGITAL AUDIO CH-1/2 CHANNEL STATUS BIT
C3/4 ; DIGITAL AUDIO CH-3/4 CHANNEL STATUS BIT
CRD0 – CRD7 ; CHANNEL STATUS READ DATA0 – 7
CSERR ; CHECK SUM ERROR (L)
DBNERR ; DBN UNCONTINUITY ERROR (L)
DBNPER ; DBN PARITY ERROR (L)
DCERR ; DC UNMATCH ERROR (L)
DCPER ; DC PARITY ERROR (L)
DIDERR ; DID UNMATCH ERROR (L)
DIDPER ; DID PARITY ERROR (L)
DLY0 – DLY5 ; SAMPLE DELAY INDICATOR BIT0 – 5
U1/2 ; DIGITAL AUDIO CH-1/2 USER DATA BIT
U3/4 ; DIGITAL AUDIO CH-3/4 USER DATA BIT
UDPER ; UD PARITY ERROR (L)
V1/2 ; DIGITAL AUDIO CH-1/2 VALIDITY FLAG
V3/4 ; DIGITAL AUDIO CH-3/4 VALIDITY FLAG
Z1/2 ; DIGITAL AUDIO CH-1/2 BLOCK SYNC (Z-FLAG)
Z3/4 ; DIGITAL AUDIO CH-3/4 BLOCK SYNC (Z-FLAG)


104 10/9
17 MUTE4
18 MUTE3
19 MUTE2
20 MUTE1
117 IT8
116 IT7
49 IT6
15 IT5
14 IT4
13 IT3
12 IT2
2 IT1
22 CHEX1
23 CHEX0
113 DID1
114 DID0
69 CRA6
68 CRA5
67 CRA4
66 CRA3
65 CRA2
64 CRA1
63 CRA0
62 OECRD
70 CREN
50 CRCK
115 EROB
90 OEERR
10 OEDLY
40 OEAD
43 LRCK
42 BCK
27 20/16
26 DIR
25 LRS
24 AFS
109 TRS
103 ADFT
102 AUX9
100 AUX8
99 AUX7
98 AUX6
97 AUX5
96 AUX4
95 AUX3
94 AUX2
93 AUX1
92 AUX0
112 D2/D1
110 VCK
3 CLR
AD1/2 39
AD3/4 38
NC 108
NC 107
NC 105
NC 48
NC 47
NC 45
CSERR 89
UDPER 88
DCERR 87
DCPER 86
DBNERR 85
DBNPER 84
DIDERR 83
DIDPER 82
DLY5 4
DLY4 5
DLY3 6
DLY2 7
DLY1 8
DLY0 9
EXT4 80
EXT3 79
EXT2 78
EXT1 77
ERR4 75
ERR3 74
ERR2 73
ERR1 72
WRDL 119
OT3 118
OT2 44
OT1 28
CRD7 52
CRD6 53
CRD5 54
CRD4 55
CRD3 56
CRD2 57
CRD1 58
CRD0 59
Z3/4 29
Z1/2 30
C3/4 32
C1/2 33
U3/4 34
U1/2 35
V3/4 36
V1/2 37

CXD8281Q (SONY) FLAT PACKAGE

C-MOS DIGITAL AUDIO TIME BASE COMPRESSION FOR SIF TRANSMITER
– TOP VIEW –


GND
NC
GND
VDD (+5V)
GND
NC
GND
VDD (+5V)
GND
NC
VDD (+5V)
NC
NC
GND
NC
NC
NC
VDD (+5V)
NC
NC
GND
GND
NC
NC
VDD (+5V)
GND
NC
GND
VDD (+5V)
GND
GND

(VDD = + 5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	–	VSS	31	–	GND	61	–	GND	91	–	GND
2	IU	IT1	32	ID	C3/4	62	IU	CWA0 (LSB)	92	OT	AUX0 (LSB)
3	IU	CLR	33	ID	C1/2	63	IU	CWA1	93	OT	AUX1
4	–	NC	34	ID	U3/4	64	IU	CWA2	94	OT	AUX2
5	O	OT1	35	ID	U1/2	65	IU	CWA3 (MSB)	95	OT	AUX3
6	O	OT2	36	ID	V3/4	66	IU	CWEN	96	OT	AUX4
7	O	OT3	37	ID	V1/2	67	IU	IT3	97	OT	AUX5
8	O	OT4	38	ID	AD3/4	68	IU	IT4	98	OT	AUX6
9	O	OT5	39	ID	AD1/2	69	IU	IT5	99	OT	AUX7
10	O	OT6	40	ID	BCK	70	–	NC	100	OT	AUX8
11	–	GND	41	–	GND	71	–	GND	101	–	GND
12	O	OT7	42	ID	128CK	72	IU	DID0	102	OT	AUX9 (MSB)
13	O	OT8	43	IU	LRCK	73	IU	DID1	103	O	ADBT
14	O	OT9	44	–	NC	74	IU	LIM0	104	ID	OEAUX
15	O	OT10	45	–	NC	75	IU	LIM1	105	–	NC
16	–	VDD	46	–	VDD	76	–	VDD	106	–	VDD
17	O	OT11	47	–	NC	77	IU	CHS1	107	–	NC
18	O	OT12	48	–	NC	78	IU	CHS2	108	–	NC
19	O	OT13	49	IU	IT2	79	IU	CHS3	109	IU	SYNC
20	O	OT14	50	IU	CWCK	80	IU	CHS4	110	ID	VCK
21	–	GND	51	–	GND	81	–	GND	111	–	GND
22	IU	CHEX1	52	IU	CWD7 (MSB)	82	IU	DLY0 (LSB)	112	IU	D2/D1
23	IU	CHEX0	53	IU	CWD6	83	IU	DLY1	113	–	NC
24	IU	AFS	54	IU	CWD5	84	IU	DLY2	114	–	NC
25	IU	LRS	55	IU	CWD4	85	IU	DLY3	115	O	OT15
26	IU	DIR	56	IU	CWD3	86	IU	DLY4 (MSB)	116	O	OT16
27	IU	20/16	57	IU	CWD2	87	–	NC	117	O	OT17
28	IU	ZCS	58	IU	CWD1	88	O	AUXT	118	O	OT18
29	ID	Z3/4	59	IU	CWD0 (LSB)	89	O	UDT	119	O	OT19
30	ID	Z1/2	60	–	VDD	90	O	ADFT	120	–	VDD

IU ; INPUT WITH PULL-UP REGISTER
ID ; INPUT WITH PULL-DOWN REGISTER
OT ; TRI-STATE OUTPUT

INPUT (WITH PULL-DOWN REGISTER)

128CK	; DIGITAL AUDIO 128 × Fs CLOCK
AD1/2	; DIGITAL AUDIO CH-1/2 DATA
AD3/4	; DIGITAL AUDIO CH-3/4 DATA
BCK	; DIGITAL AUDIO BIT CLOCK (= 64 × Fs)
C1/2	; DIGITAL AUDIO CH-1/2 CHANNEL STATUS BIT
C3/4	; DIGITAL AUDIO CH-3/4 CHANNEL STATUS BIT
OEAUX	; OUTPUT ENABLE FOR AUX0-9 (L)
U1/2	; DIGITAL AUDIO CH-1/2 USER DATA BIT
U3/4	; DIGITAL AUDIO CH-3/4 USER DATA BIT
V1/2	; DIGITAL AUDIO CH-1/2 VALIDITY FLAG
V3/4	; DIGITAL AUDIO CH-3/4 VALIDITY FLAG
VCK	; VIDEO CLOCK (= 4Fsc) INPUT
Z1/2	; DIGITAL AUDIO CH-1/2 BLOCK SYNC (Z-FLAG)
Z3/4	; DIGITAL AUDIO CH-3/4 BLOCK SYNC (Z-FLAG)

INPUT (WITH PULL-UP REGISTER)

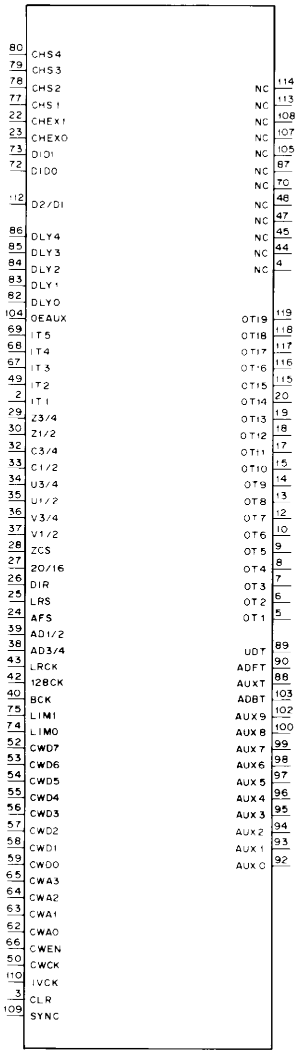
20/16	; DIGITAL AUDIO 20BIT/16BIT SELECT
AFS	; DIGITAL AUDIO FORMAT SELECT
CHEX0,1	; CHANNEL EXCHANGE 0,1
CHS1 – CHS4	; AUDIO CH1 – CH4 OUTPUT SELECT (L)
CLR	; POWER ON CLEAR (L)
CWA0 – CWA3	; CHANNEL STATUS REGISTER WRITE ADDRESS 0 – 3
CWCK	; CHANNEL STATUS REGISTER WRITE CLOCK
CWD0 – CWD7	; CHANNEL STATUS REGISTER WRITE DATA 0 – 7
CWEN	; CHANNEL STATUS REGISTER WRITE ENABLE
D2/D1	; VIDEO FORMAT D2/D1 SELECT
DID0,1	; DATA ID BIT0,1
DIR	; DIGITAL AUDIO MSB FIRST/LSB FIRST SELECT
DLY0 – DLY4	; DELAY CONTROL BIT0 – BIT3
IT1 – IT5	; TEST (L)
LIM0,1	; LINE MODE 0,1
LRCK	; DIGITAL AUDIO L/R CLOCK (= Fs)
LRS	; DIGITAL AUDIO LEFT/RIGHT BIT POSITION SELECT
SYNC	; VIDEO SYNC INPUT
ZCS	; DIGITAL AUDIO Z-FLAG C-BIT SELECT

OUTPUT

ADBT	; AUX. DATA BLOCK TIMING
ADFT	; AUX. DATA FLAG TIMING
AUXT	; AUX. DATA TIMING
OT1 – OT19	; TEST
UDT	; USER DATA TIMING

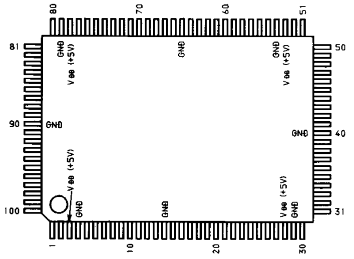
OUTPUT (TRI-STATE)

AUX0 – AUX9	; AUX. DATA 0 – 9


80 CHS4
79 CHS3
78 CHS2
77 CHS1
22 CHEX1
23 CHEX0
73 DID1
72 DID0
112 D2/D1
86 DLY4
85 DLY3
84 DLY2
83 DLY1
82 DLY0
104 OEAUX
69 IT5
68 IT4
67 IT3
49 IT2
2 IT1
29 Z3/4
30 Z1/2
32 C3/4
33 C1/2
34 U3/4
35 U1/2
36 V3/4
37 V1/2
28 ZCS
27 20/16
26 DIR
25 LRS
24 AFS
39 AD1/2
38 AD3/4
43 LRCK
42 128CK
40 BCK
75 LIM1
74 LIM0
52 CWD7
53 CWD6
54 CWD5
55 CWD4
56 CWD3
57 CWD2
58 CWD1
59 CWD0
65 CWA3
64 CWA2
63 CWA1
62 CWA0
66 CWEN
50 CWCK
110 VCK
3 CLR
109 SYNC
NC 114
NC 113
NC 108
NC 107
NC 105
NC 87
NC 70
NC 48
NC 47
NC 45
NC 44
NC 4
OT19 119
OT18 118
OT17 117
OT16 116
OT15 115
OT14 20
OT13 19
OT12 18
OT11 17
OT10 15
OT9 14
OT8 13
OT7 12
OT6 10
OT5 9
OT4 8
OT3 7
OT2 6
OT1 5
UDT 89
ADFT 90
AUXT 88
ADBT 103
AUX9 102
AUX8 100
AUX7 99
AUX6 98
AUX5 97
AUX4 96
AUX3 95
AUX2 94
AUX1 93
AUX0 92

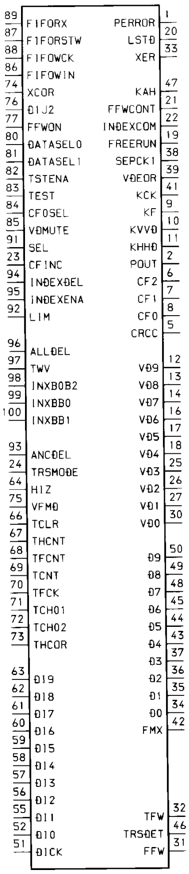
CXD8386AQ (SONY)

C-MOS 4:2:2 COMPONENT DECODER
– TOP VIEW –


80
70
60
51
81
50
90
40
100
31
1
10
20
30
GND
VDD (+5V)
GND
GND
VDD (+5V)
GND
GND
VDD (+5V)
GND
GND
VDD (+5V)
GND

(VDD = +5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	O	PERROR	26	O	VD2	51	I	DICK	76	I	D1J2
2	O	POUT	27	O	VD1	52	I	DI0	77	I	FFWON
3	–	VDD	28	–	VDD	53	–	VDD	78	–	VDD
4	–	GND	29	–	GND	54	–	GND	79	–	GND
5	O	CRCC	30	O	VD0	55	I	DI1	80	I	DATASEL0
6	O	CF2	31	O	FFW	56	I	DI2	81	I	DATASEL1
7	O	CF1	32	O	TFW	57	I	DI3	82	I	TSTENA
8	O	CF0	33	O	XER	58	I	DI4	83	I	TEST
9	O	KF	34	O	D0	59	I	DI5	84	I	CFOSEL
10	O	KVVD	35	O	D1	60	I	DI6	85	I	VDMUTE
11	O	KHHD	36	O	D2	61	I	DI7	86	I	FIFOWIN
12	O	VD9	37	O	D3	62	I	DI8	87	I	FIFORSTW
13	O	VD8	38	O	SEPCK1	63	I	DI9	88	I	FIFOWCK
14	O	VD7	39	O	VDEOR	64	I	HIZ	89	I	FIFORX
15	–	GND	40	–	GND	65	–	GND	90	–	GND
16	O	VD6	41	O	KCK	66	I	TCLR	91	I	SEL
17	O	VD5	42	O	FMX	67	I	THCNT	92	I	LIM
18	O	VD4	43	O	D4	68	I	TFCNT	93	I	ANCDEL
19	O	FREERUN	44	O	D5	69	I	TCNT	94	I	INDEXDEL
20	O	LSTD	45	O	D6	70	I	TFCK	95	I	INDEXENA
21	O	FFWCONT	46	O	TRSDET	71	I	TCH01	96	I	ALLDEL
22	O	INDEXCOM	47	O	KAH	72	I	TCH02	97	I	TWV
23	I	CFINC	48	O	D7	73	I	THCOR	98	I	INXBOB2
24	I	TRSMODE	49	O	D8	74	I	XCOR	99	I	INXBBO
25	O	VD3	50	O	D9	75	I	VFMD	100	I	INXBB1

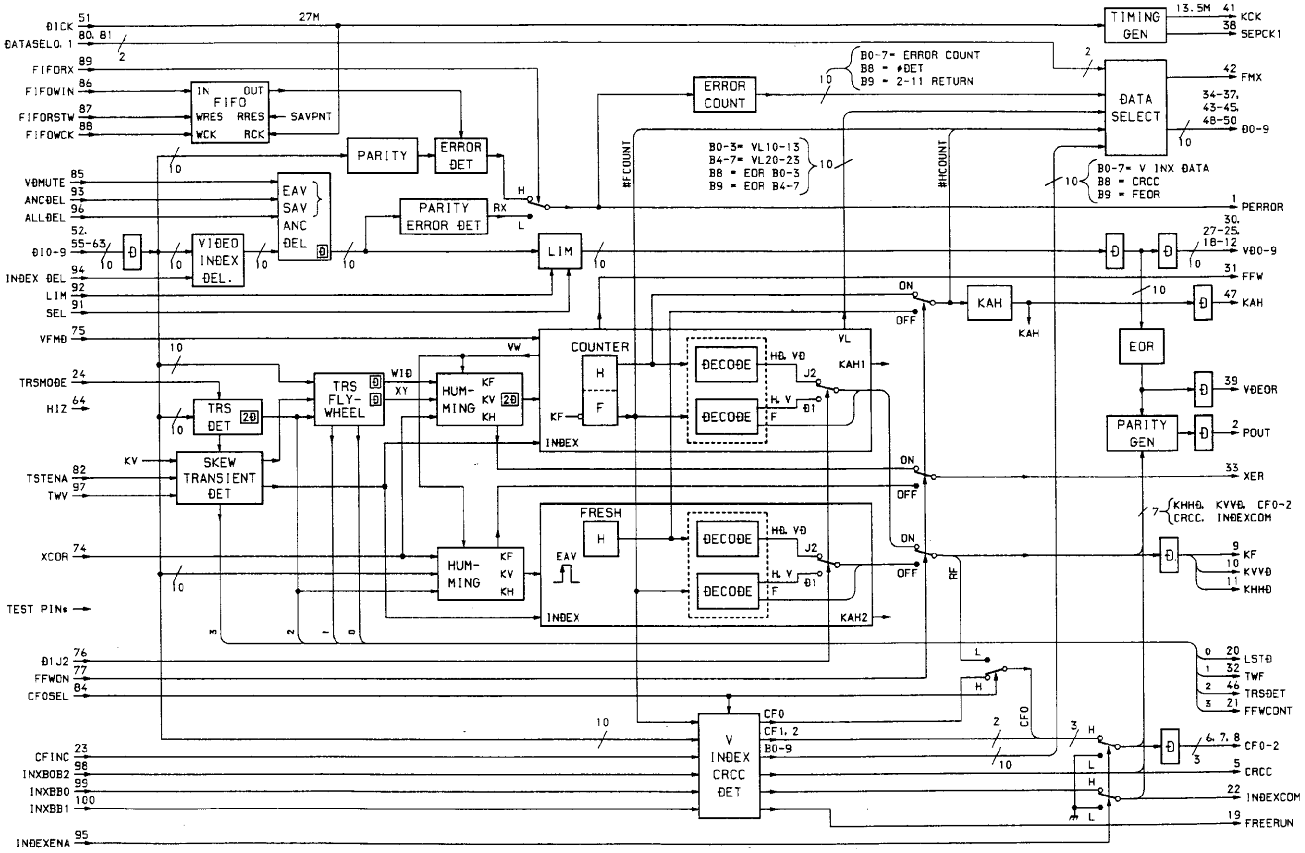

89 FIFORX
87 FIFORSTW
88 FIFOWCK
86 FIFOWIN
74 XCOR
76 D1J2
77 FFWON
80 DATASEL0
81 DATASEL1
82 TSTENA
83 TEST
84 CFOSEL
85 VDMUTE
91 SEL
23 CFINC
94 INDEXDEL
95 INDEXENA
92 LIM
96 ALLDEL
97 TWV
98 INXBOB2
99 INXBBO
100 INXBB1
93 ANCDEL
24 TRSMODE
64 HIZ
75 VFMD
66 TCLR
67 THCNT
68 TFCNT
69 TCNT
70 TFCK
71 TCH01
72 TCH02
73 THCOR
63 DI9
62 DI8
61 DI7
60 DI6
59 DI5
58 DI4
57 DI3
56 DI2
55 DI1
52 DI0
51 DICK
PERROR 1
LSTD 20
XER 33
KAH 47
FFWCONT 21
INDEXCOM 22
FREERUN 19
SEPCK1 38
VDEOR 39
KCK 41
KF 9
KVVD 10
KHHD 11
POUT 2
CF2 6
CF1 7
CF0 8
CRCC 5
VD9 12
VD8 13
VD7 14
VD6 16
VD5 17
VD4 18
VD3 25
VD2 26
VD1 27
VD0 30
D9 50
D8 49
D7 48
D6 45
D5 44
D4 43
D3 37
D2 36
D1 35
D0 34
FMX 42
TFW 32
TRSDET 46
FFW 31

INPUT

ALLDEL	;DELETE CONTROL FOR BETWEEN EAV AND SAV
ANCDEL	;ANC DELETE CONTROL
CFOSEL	;CFO SELECT
CFINC	;CF INCRIMENT CONTROL
D1J2	;MODE SELECT
DATASEL0, 1	;D0-D9 DATA CONTROL
DI0-9	;VIDEO DATA BUS
DICK	;27MHz CLOCK
FFWON	;SYNCHRONIZE SYSTEM FLYWHEEL/DIRECT SELECT
FIFORSTW, FIFORX, FIFOWCK, FIFOWIN	;SELF-DIAGNOSIS
HIZ	;OUTPUT SYSTEM HI-IMPEDANCE CONTROL
INDEXDEL	;INX DELETE CONTROL
INDEXENA	;INX ENABLE CONTROL
INXBOB2	;INX CONTROL
INXBBO, 1	;MOTOR CONTROL
LIM	;LIMITER ON/OFF CONTROL
SEL	;LIMITER MODE SELECT
TCH01-02, TCLR, TCNT, TFCK, TFCNT, THCNT, THCOR, TSTENA	;FOR TEST
TRSMODE	;TRS DETECT MODE SELECT
TWV	;NOT CONSECUTIVE DETECT CONTROL
VDMUTE	;MUTE CONTROL
VFMD	;525, V HYSTERESIS PROCESS
XCOR	;TRS XY-BYTE PROCESS

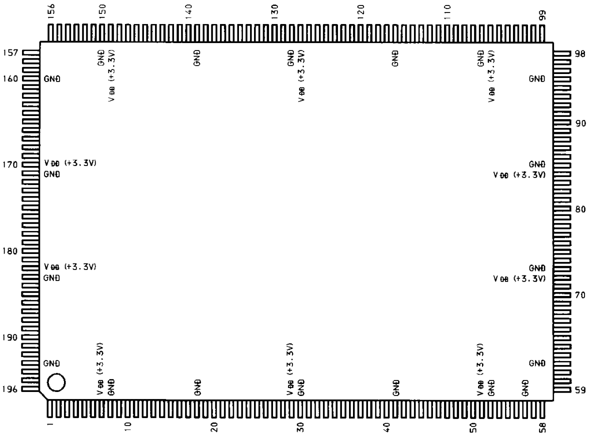
OUTPUT

CF0-2	;COLOR FRAME
CRCC	;CLASS 2-1CRCC+CF0/RF0DET
D0-9	;INTERNAL DATA INFORMATION
FFW, TFW	;FLYWHEEL STATUS
FFWCONT	;FLY/DIRECT SYNCHRONIZE SELECT CONTROL
FMX	;F COUNTER PULSE STATE
FREERUN	;ERROR STATUS OF INX FOUR CONSECUTIVE TIMES
INDEXCOM	;COMPOSITE/COMPONENT SIGNAL
KAH	;ANALOG SYNCHRONIZE
KCK	;13.5MHz CLOCK
KF	;KF
KHHD	;H SYNCHRONIZE
KVVD	;V SYNCHRONIZE
LSTD	;525/625 DETECT
PERROR	;SELF-DIAGNOSIS DETECT
POUT	;SELF-DIAGNOSIS PARITY BETWEEN BOARD
SEPCK1	;6.75MHz CLOCK
TRSDET	;TRS DETECT
VD0-9	;VIDEO DATA BUS
VDEOR	;VIDEO DATA EOR
XER	;TRS XY-BYTE HAMMING PROCESS


DICK 51
DATASEL0, 1 80, 81
FIFORX 89
FIFOWIN 86
FIFORSTW 87
FIFOWCK 88
VDMUTE 85
ANCDEL 93
ALLDEL 96
DI0-9 52, 55-63
INDEX DEL 94
LIM 92
SEL 91
VFMD 75
TRSMODE 24
HIZ 64
TSTENA 82
TWV 97
XCOR 74
TEST PINs
D1J2 76
FFWON 77
CFOSEL 84
CFINC 23
INXBOB2 98
INXBBO 99
INXBB1 100
INDEXENA 95
27M
TIMING GEN
13.5M 41 KCK
38 SEPCK1
FIFO
IN OUT
WRES RRES
WCK RCK
SAVPNT
PARITY
ERROR DET
ERROR COUNT
B0-7= ERROR COUNT
B8 = #DET
B9 = 2-11 RETURN
DATA SELECT
42 FMX
34-37, 43-45, 48-50 D0-9
#FCOUNT
#HCOUNT
B0-3= VL10-13
B4-7= VL20-23
B8 = EOR B0-3
B9 = EOR B4-7
B0-7= V INX DATA
B8 = CRCC
B9 = FEOR
1 PERROR
EAV SAV ANC DEL
VIDEO INDEX DEL.
PARITY ERROR DET
RX
L
H
LIM
30, 27-25, 18-12 VD0-9
31 FFW
ON
OFF
KAH
47 KAH
EOR
39 VDEOR
PARITY GEN
2 POUT
33 XER
COUNTER
H
F
KF
INDEX
DECODE
HD, VD
J2
D1
H, V
F
VL
KAH1
TRS DET
SKEW TRANSIENT DET
KV
TRS FLY-WHEEL
WID
XY
HUM-MING
KF
KV
KH
FRESH
EAV
KAH2
RF
KHHD, KVVD, CF0-2
CRCC, INDEXCOM
9 KF
10 KVVD
11 KHHD
20 LSTD
32 TWF
46 TRSDET
21 FFWCONT
V INDEX CRCC DET
CF0
CF1, 2
B0-9
CF0
6, 7, 8 CF0-2
5 CRCC
22 INDEXCOM
19 FREERUN
10
2
3
7

CXD8382BQ (SONY)

C-MOS DIGITAL ENCODER
– TOP VIEW –



INPUT

CADDR 0-2	:SCH SETUP OF OUTPUT SIGNAL
CK 8FSC	:STANDARD CLOCK FOR 8fsc MODE
CK27	:STANDARD CLOCK FOR 27MHz MODE
DD SCK	:CLOCK FOR SERIAL COMMUNICATION BETWEEN MICROCOMPUTER
DD START	:STATUS PULSE FOR SERIAL COMMUNICATION BETWEEN MICROCOMPUTER
ICADDR 0-3	:ADDRESS AUTHORIZE
MODE DATA	:DATA FOR SERIAL COMMUNICATION BETWEEN MICROCOMPUTER
PAL/NTSC	:INITAL SETUP
PB CF	:COLOR FRAME (3-BIT) OF IMAGE DATA
PB DATA 00-09	:IMAGE DATA
PB HD	:HD OF IMAGE DATA
PB VD	:VD OF IMAGE DATA
PB PARITY	:PARITY BIT OF IMAGE DATA
POWER ON RESET	:RESET TERMINAL
REF CF	:COLOR FRAME OF REFERENCE
REF HD	:HD OF REFERENCE
REF VD	:VD OF REFERENCE

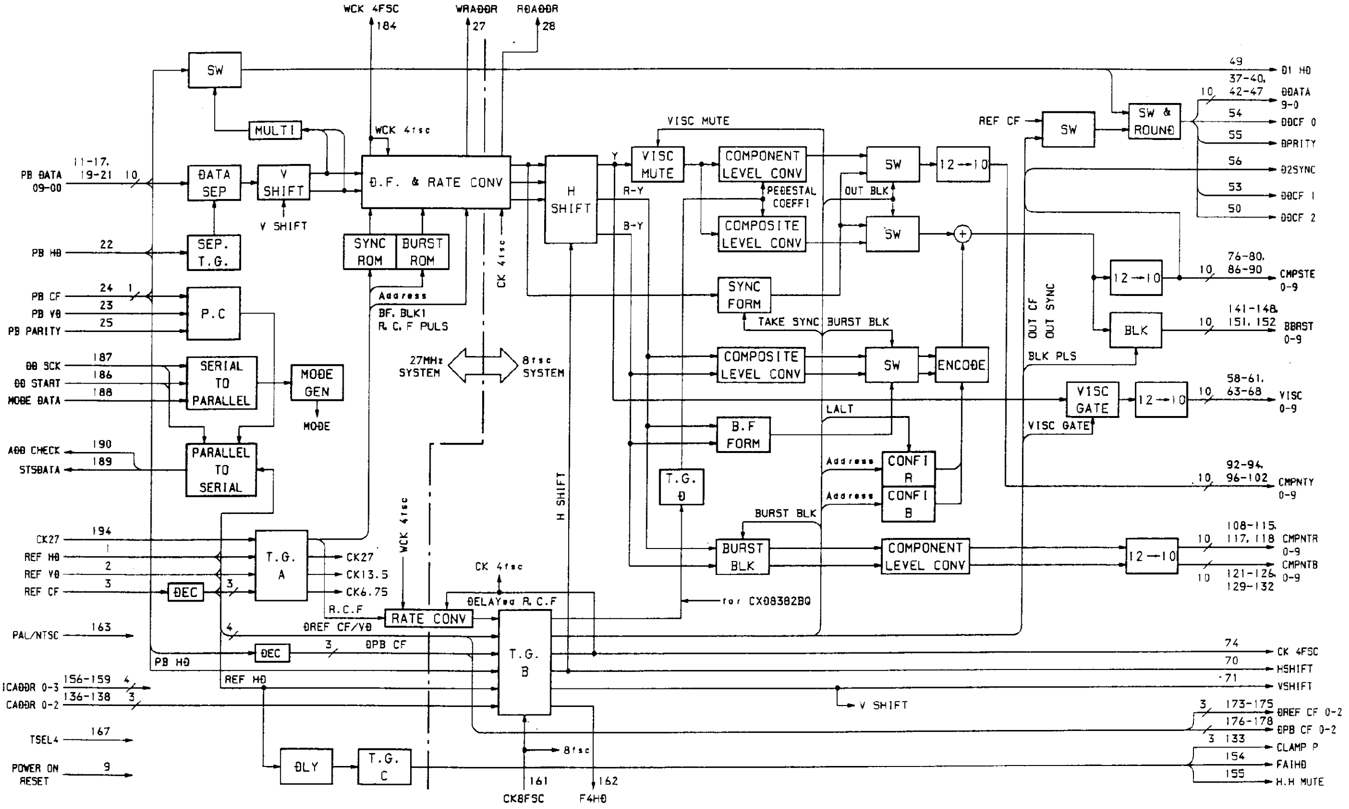
OUTPUT

ADD CHECK	:CLOCK FOR SERIAL COMMUNICATION RECEIVE CHECK BETWEEN MICROCOMPUTER
BBRST 0-9	:DIGITAL DATA FOR BLACK BURST
CK 4FSC	:4fsc CLOCK AT 8fsc COUNT DOWN
CLAMP P	:CLAMP PULSE
CMPNTB 0-9	:COMPONENT B DIGITAL DATA
CMPNTR 0-9	:COMPONENT R DIGITAL DATA
CMPNTY 0-9	:COMPONENT Y DIGITAL DATA
CMPSTE 0-9	:COMPOSITE DIGITAL DATA
DDATA 0-9	:IMAGE DATA AT D1 OUTPUT MODE. D2 DATA AT D2 OUTPUT MODE
D PARITY	:PARITY BIT FOR DIGITAL DATA
D1 HD	:HD OF 27MHz (PHASE AGREE WITH DDATA)
DDCF 0	:ON THE BIT0 OF COLOR FRAME AT D1 AND D2 OUTPUT MODE
DDCF 1	:COLOR FRAME (3-BIT) AT D1 OUTPUT MODE. ON THE BIT1 OF COLOR FRAME AT D2 OUTPUT MODE
DD CF 2	;ON THE BIT2 OF COLOR FRAME AT D2 OUTPUT MODE
DPB CF 0-2	:PB CF DECODED DATA
DREF CF 0-2	:REF CF DECODED DATA
F4 HD	:HD MAKE OF 4fsc
FAIHD	:HD OF 27MHz SYNC PHASE AGREE WITH ANALOG DATA
H.H MUTE	:MAKE GATE FAIHD
HSHIFT	:H SHIFT MODE
RDADDR	:FIFO READ ADDRESS MSB DATA FOR RATE CONVERT
STSDATA	:RESPONCE FOR SERIAL COMMUNICATION BETWEEN MICTOCOMPUTER
VSHIFT	:V SHIFT MODE
VISC 0-9	:VISC DIGITAL DATA
WCK4FSC	:4fsc CLOCK FOR RATE CONVERT
WRADDR	:FIFO WRITE ADDRESS MSB DATA FOR RATE CONVERT

(V_{DD}=+3.3V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	REF HD	41	-	GND	81	-	*	121	O	CMPNTB 0	161	I	CK8FSC
2	I	REF VD	42	O	DDATA 5	82	I	T04	122	O	CMPNTB 1	162	O	F4HD
3	I	REF CF	43	O	DDATA 4	83	I	T05	123	O	CMPNTB 2	163	I	PAL/NTSC
4	I	T00	44	O	DDATA 3	84	-	V_{DD}	124	O	CMPNTB 3	164	I	TSEL 1
5	I	T01	45	O	DDATA 2	85	-	GND	125	O	CMPNTB 4	165	I	TSEL 2
6	I	T02	46	O	DDATA 1	86	O	CMPSTE 5	126	O	CMPNTB 5	166	I	TSEL 3
7	-	V_{DD}	47	O	DDATA 0	87	O	CMPSTE 6	127	-	V_{DD}	167	I	MUTE/TSEL4
8	-	GND	48	I	T12	88	O	CMPSTE 7	128	-	GND	168	I	TSEL 5
9	I	POWER ON RESET	49	O	D1 HD	89	O	CMPSTE 8	129	O	CMPNTB 6	169	I	TSEL 6
10	I	T26	50	O	DDCF 2	90	O	CMPSTE 9	130	O	CMPNTB 7	170	-	V_{DD}
11	I	PB DATA 09	51	-	V_{DD}	91	I	T16	131	O	CMPNTB 8	171	-	GND
12	I	PB DATA 08	52	-	GND	92	O	CMPNTY 0	132	O	CMPNTB 9	172	I	TSEL 7
13	I	PB DATA 07	53	O	DDCF 1	93	O	CNPNTY 1	133	O	CLAMP P	173	O	DREF CF 0
14	I	PB DATA 06	54	O	DDCF 0	94	O	CMPNTY 2	134	I	T22	174	O	DREF CF 1
15	I	PB DATA 05	55	O	DPRITY	95	-	GND	135	I	T23	175	O	DREF CF 2
16	I	PB DATA 04	56	O	D2SYNC	96	O	CMPNTY 3	136	I	CADDR 0	176	O	DPB CF 0
17	I	PB DATA 03	57	I	T13	97	O	CMPNTY 4	137	I	CADDR 1	177	O	DPB CF 1
18	-	GND	58	O	VISC 0	98	O	CMPNTY 5	138	I	CADDR 2	178	O	DPB CF 2
19	I	PB DATA 02	59	O	VISC 1	99	O	CMPNTY 6	139	-	GND	179	I	T33
20	I	PB DATA 01	60	O	VISC 2	100	O	CMPNTY 7	140	I	T24	180	I	T34
21	I	PB DATA 00	61	O	VISC 3	101	O	CMPNTY 8	141	O	BBRST 0	181	I	T28
22	I	PB HD	62	-	GND	102	O	CMPNTY 9	142	O	BBRST 1	182	-	V_{DD}
23	I	PB VD	63	O	VISC 4	103	I	T17	143	O	BBRST 2	183	-	GND
24	I	PB CF	64	O	VISC 5	104	I	T18	144	O	BBRST 3	184	O	WCK4FSC
25	I	PB PARITY	65	O	VISC 6	105	-	V_{DD}	145	O	BBRST 4	185	I	T27
26	I	T03	66	O	VISC 7	106	-	GND	146	O	BBRST 5	186	I	DD START
27	O	WRADDR	67	O	VISC 8	107	I	T19	147	O	BBRST 6	187	I	DD SCK
28	O	RDADDR	68	O	VISC 9	108	O	CMPNTR 0	148	O	BBRST 7	188	I	MODE DATA
29	-	V_{DD}	69	I	T14	109	O	CMPNTR 1	149	-	V_{DD}	189	O	STSDATA
30	-	GND	70	O	HSHIFT	110	O	CMPNTR 2	150	-	GND	190	O	ADD CHECK
31	I	T06	71	O	VSHIFT	111	O	CMPNTR 3	151	O	BBRST 8	191	I	T29
32	I	T07	72	-	V_{DD}	112	O	CMPNTR 4	152	O	BBRST 9	192	I	T30
33	I	T08	73	-	GND	113	O	CMPNTR 5	153	I	T25	193	-	GND
34	I	T09	74	O	CK 4FSC	114	O	CMPNTR 6	154	O	FAIHD	194	I	CK27
35	I	T10	75	I	T15	115	O	CMPNTR 7	155	O	H.H MUTE	195	I	T31
36	I	T11	76	O	CMPSTE 0	116	-	GND	156	I	ICADDR 0	196	I	T32
37	O	DDATA 9	77	O	CMPSTE 1	117	O	CMPNTR 8	157	I	ICADDR 1			
38	O	DDATA 8	78	O	CMPSTE 2	118	O	CMPNTR 9	158	I	ICADDR.2			
39	O	DDATA 7	79	O	CMPSTE 3	119	I	T20	159	I	ICADDR 3			
40	O	DDATA 6	80	O	CMPSTE 4	120	I	T21	160	-	GND			

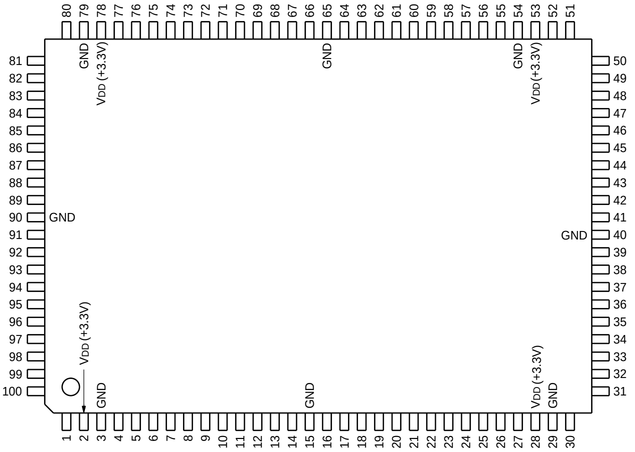
*Connect Pin81 to the ground.

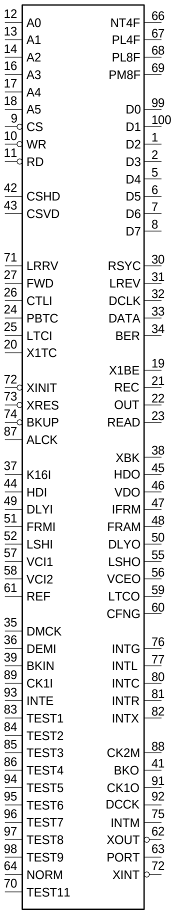

WCK 4FSC 184
WRADDR 27
RDADDR 28
SW
MULTI
WCK 4fsc
DATA SEP
V SHIFT
D.F. & RATE CONV
SEP. T.G.
SYNC ROM
BURST ROM
Address
BF, BLK1
R.C.F PULS
CK 4fsc
P.C
SERIAL TO PARALLEL
MODE GEN
MODE
PARALLEL TO SERIAL
27MHz SYSTEM
8fsc SYSTEM
T.G. A
CK27
CK13.5
CK6.75
DEC
R.C.F
RATE CONV
DELAYed R.C.F
CK 4fsc
T.G. B
DREF CF/VD
DPB CF
PB HD
REF HD
DLY
T.G. C
8fsc
161 CK8FSC
162 F4HD
H SHIFT
Y
R-Y
B-Y
VISC MUTE
COMPONENT LEVEL CONV
PEDESTAL COEFF1
COMPOSITE LEVEL CONV
SYNC FORM
TAKE SYNC
BURST BLK
B.F FORM
T.G. D
for CX08382BQ
OUT BLK
SW
12→10
ENCODE
LALT
Address
CONFI A
CONFI B
COMPONENT LEVEL CONV
REF CF
SW & ROUND
OUT CF
OUT SYNC
BLK PLS
BLK
VISC GATE
V SHIFT
PB DATA 09-00 11-17, 19-21 10
PB HD 22
PB CF 24 1
PB VD 23
PB PARITY 25
DD SCK 187
DD START 186
MODE DATA 188
ADD CHECK 190
STSDATA 189
CK27 194
REF HD 1
REF VD 2
REF CF 3
PAL/NTSC 163
ICADDR 0-3 156-159 4
CADDR 0-2 136-138 3
TSEL4 167
POWER ON RESET 9
49 D1 HD
37-40, 42-47 10 DDATA 9-0
54 DDCF 0
55 DPRITY
56 D2SYNC
53 DDCF 1
50 DDCF 2
76-80, 86-90 10 CMPSTE 0-9
141-148, 151, 152 10 BBRST 0-9
58-61, 63-68 10 VISC 0-9
92-94, 96-102 10 CMPNTY 0-9
108-115, 117, 118 10 CMPNTR 0-9
121-126, 129-132 10 CMPNTB 0-9
74 CK 4FSC
70 HSHIFT
71 VSHIFT
173-175 3 DREF CF 0-2
176-178 DPB CF 0-2
133 3 CLAMP P
154 FAIHD
155 H.H MUTE

http://getMANUAL.com

CXD8384Q (SONY)

C-MOS LTC READER/GENERATOR
– TOP VIEW –


GND
VDD (+3.3V)
GND
GND
VDD (+3.3V)
GND
GND
VDD (+3.3V)
GND
GND
VDD (+3.3V)
GND
1
30
31
50
51
80
81
100


12 A0
13 A1
14 A2
16 A3
17 A4
18 A5
9 CS
10 WR
11 RD
42 CSHD
43 CSVD
71 LRRV
27 FWD
26 CTLI
24 PBTC
25 LTCI
20 X1TC
72 XINIT
73 XRES
74 BKUP
87 ALCK
37 K16I
44 HDI
49 DLYI
51 FRMI
52 LSHI
57 VCI1
58 VCI2
61 REF
35 DMCK
36 DEMI
39 BKIN
89 CK1I
93 INTE
83 TEST1
84 TEST2
85 TEST3
86 TEST4
94 TEST5
95 TEST6
96 TEST7
97 TEST8
98 TEST9
64 NORM
70 TEST11
NT4F 66
PL4F 67
PL8F 68
PM8F 69
D0 99
D1 100
D2 1
D3 2
D4 5
D5 6
D6 7
D7 8
RSYC 30
LREV 31
DCLK 32
DATA 33
BER 34
X1BE 19
REC 21
OUT 22
READ 23
XBK 38
HDO 45
VDO 46
IFRM 47
FRAM 48
DLYO 50
LSHO 55
VCEO 56
LTCO 59
CFNG 60
INTG 76
INTL 77
INTC 80
INTR 81
INTX 82
CK2M 88
BKO 41
CK1O 91
DCCK 92
INTM 75
XOUT 62
PORT 63
XINT 72

(VDD=+3.3V)

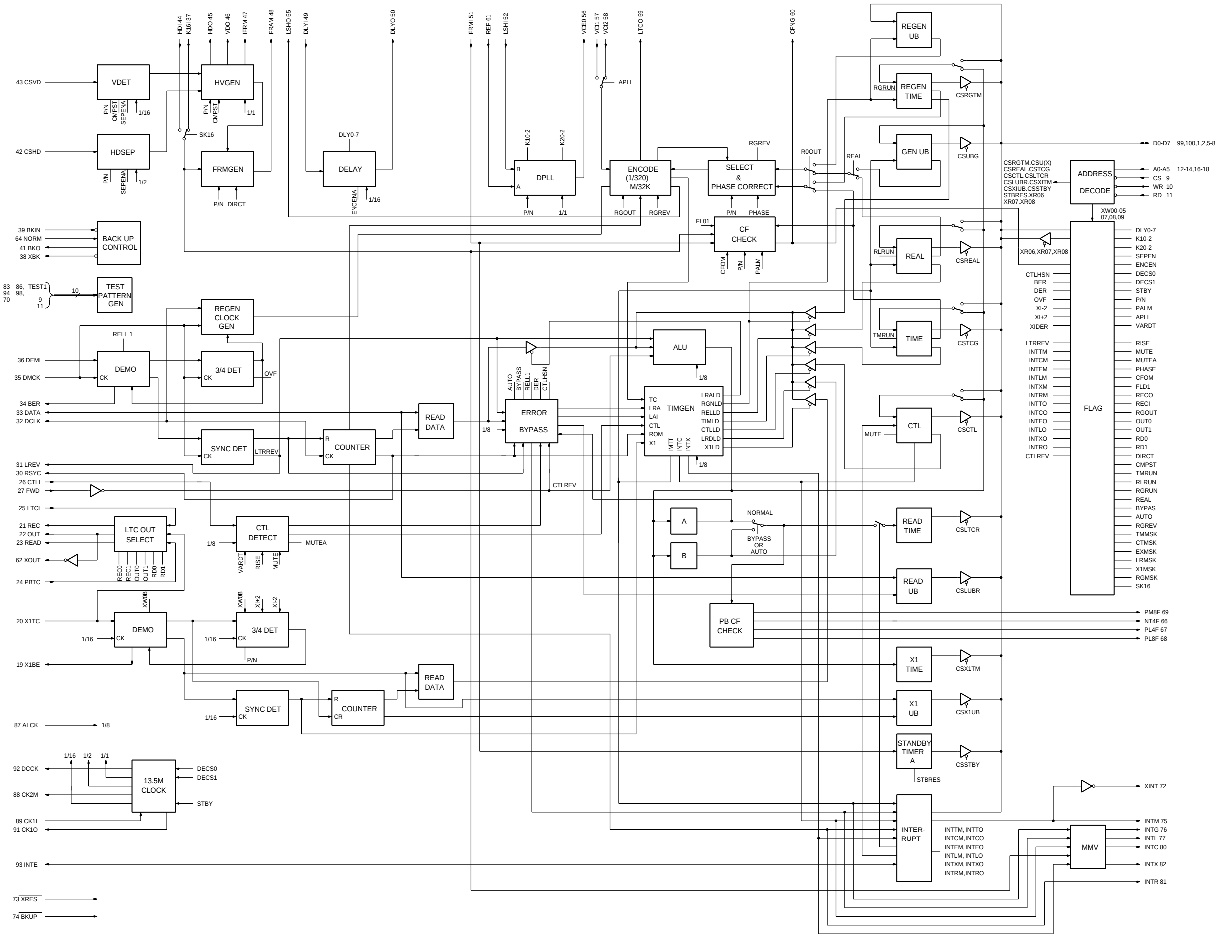
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I/O	D2	26	I	CTLI	51	I	FRMI	76	O	INTG
2	I/O	D3	27	I	FWD	52	I	LSHI	77	O	INTL
3	-	VDD	28	-	VDD	53	-	VDD	78	-	VDD
4	-	GND	29	-	GND	54	-	GND	79	-	GND
5	I/O	D4	30	O	RSYC	55	O	LSHO	80	O	INTC
6	I/O	D5	31	O	LREV	56	O	VCEO	81	O	INTR
7	I/O	D6	32	O	DCLK	57	I	VCI1	82	O	INTX
8	I/O	D7	33	O	DATA	58	I	VCI2	83	I	TEST1
9	I	$\overline{\text{CS}}$	34	O	BER	59	O	LTCO	84	I	TEST2
10	I	$\overline{\text{WR}}$	35	I	DMCK	60	O	CFNG	85	I	TEST3
11	I	$\overline{\text{RD}}$	36	I	DEMI	61	I	REF	86	I	TEST4
12	I	A0	37	I	K16I	62	O	$\overline{\text{XOUT}}$	87	I	ALCK
13	I	A1	38	O	$\overline{\text{XBK}}$	63	O	PORT	88	O	CK2M
14	I	A2	39	I	$\overline{\text{BKIN}}$	64	I	NORM	89	I	CK1I
15	-	GND	40	-	GND	65	-	GND	90	-	GND
16	I	A3	41	O	BKO	66	O	NT4F	91	O	CK1O
17	I	A4	42	I	CSHD	67	O	PL4F	92	O	DCCK
18	I	A5	43	I	CSVD	68	O	PL8F	93	I	INTE
19	O	X1BE	44	I	HDI	69	O	PM8F	94	I	TEST5
20	I	X1TC	45	O	HDO	70	I	TEST11	95	I	TEST6
21	O	REC	46	O	VDO	71	I/O	LRRV	96	I	TEST7
22	O	OUT	47	O	IFRM	72	O	$\overline{\text{XINT}}$	97	I	TEST8
23	O	READ	48	O	FRAM	73	I	$\overline{\text{XRES}}$	98	I	TEST9
24	I	PBTC	49	I	DLYI	74	I	$\overline{\text{BKUP}}$	99	I/O	D0
25	I	LTCI	50	O	DLYO	75	O	INTM	100	I/O	D1

INPUT

A0-A5	; ADDRESS BUS IN
ALCK	; ARITHMETIC LOGIC UNIT CLOCK IN
BKIN	; BACKUP IN (NEGATIVE LOGIC)
BKUP	; BACKUP EXECUTION IN (NEGATIVE LOGIC)
CK1I	; SYSTEM CLOCK IN
CSHD	; COMPOSITE SYNC/HD IN
CSVD	; COMPOSITE SYNC/VD IN
CTLI	; CTL SIGNAL IN
DEMI	; LONGITUDINAL TIME AND CONTROL CODE IN
DLYI	; INPUT TO DELAY CIRCUIT
DMCK	; LTC DEMODULATE CLOCK IN
FRMI	; FRAME SIGNAL IN
FWD	; CTL DIRECTION SIGNAL IN
HDI	; HORIZONTAL SYNC INPUT
INTE	; EXTERNAL INTERRUPT IN (POSITIVE LOGIC)
K16I	; 16KHz CLOCK IN BACKUP CLOCK IN
LRRV	; DIRECTION INPUT FOR LTC READER CALCULATION
LTCI	; GENERATED LTC IN
LSHI	; LTC SYNCHRINOUS H INPUT
NORM	; NORMAL/BACKUP MODE SELECT
TEST1-TEST9, TEST11	; TEST IN
PBTC	; PLAYBACK LTC IN
RD	; READ IN (NEGATIVE LOGIC)
REF	; REFERENCE OF LTC GENERATOR
VCI1	; LTC CLOCK IN-1
VCI2	; EXTERNAL LTC IN
X1TC	; LTC CLOCK IN-2
XRES	; SYSTEM RESET IN (NEGATIVE LOGIC)
WR	; WRITE IN (NEGATIVE LOGIC)

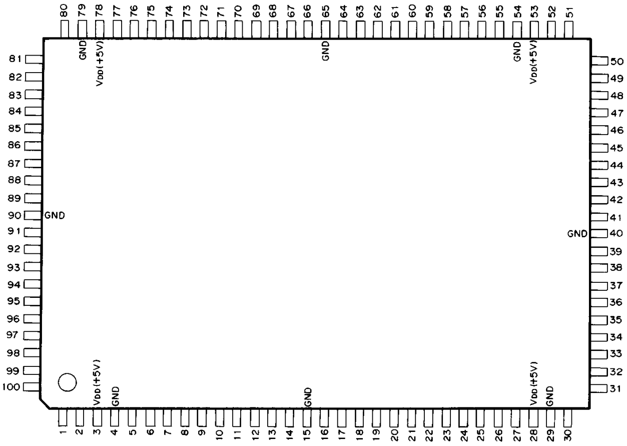
OUTPUT

BER	; BI-PHASE MARK ERROR (BIT ERROR)
BKO	; BACKUP CONTROL OUT-2 (POSITIVE LOGIC)
CFNG	; COLOR FRAME ERROR FLAG OUT
CK1O	; SYSTEM CLOCK OUT
CK2M	; CLOCK 2M OUT
CS	; CHIP SELECT IN (NEGATIVE LOGIC)
D0-D7	; DATA BUS
DATA	; DEMODULATED SERIAL DATA OUT
DCCK	; LTC DECODE CLOCK OUT
DCLK	; DEMODULATED CLOCK OUT
DLYO	; OUTPUT FROM DELAY CIRCUIT
FRAM	; FRAME SIGNAL OUT -2
HDO	; HORIZONTAL SYNC DRIVE OUT
IFRM	; FRAME SIGNAL OUT -1
INTC	; CTL INTERRUPT OUT (POSITIVE LOGIC)
INTG	; GENERATOR INTERRUPT OUT (POSITIVE LOGIC)
INTL	; READER INTERRUPT -1 OUT (POSITIVE LOGIC)
INTM	; INTERRUPT MIX OUT (POSITIVE LOGIC)
INTR	; READER INTERRUPT -2 OUT (POSITIVE LOGIC)
INTX	; EXTERNAL LTC INTERRUPT OUT (POSITIVE LOGIC)
LREV	; READ REV/FWD BIT OUT
LSHO	; LTC SYNCHRONOUS SIGNAL H OUT
LTCO	; LTC SIGNAL OUT
NT4F, PL4F, PL8F, PM8F	; DEMODULATED COLOR FRAME OUT
OUT	; EXTERNAL OUTPUT LTC OUT
PORT	; PORT
READ	; READ LTC OUT
REC	; RECORD LTC OUT
RSYC	; READ SYNC WORD DATA OUT
VCEO	; LTC CLOCK OUT
VDO	; VERTICAL SYNC DRIVE OUT
X1BE	; BI-PHASE MARK ERROR(NORMAL SPEED READER)
XBK	; BACKUP CONTROL OUT-1 (NEGATIVE LOGIC)
XINT	; INVERTED INTERRUPT MIX OUT (NEGATIVE LOGIC)
XOUT	; INVERTED EXTERNAL OUTPUT LTC OUT


HDI 44
K16I 37
HDO 45
VDO 46
IFRM 47
FRAM 48
LSHO 55
DLYI 49
DLYO 50
FRMI 51
REF 61
LSHI 52
VCE0 56
VCE1 57
VCE2 58
LTCO 59
CFNG 60
43 CSVD
VDET
HVGEN
SK16
42 CSHD
HDSEP
FRMGEN
DLY0-7
DELAY
ENCENA
DPLL
K10-2
K20-2
APLL
ENCODE (1/320) M/32K
RGOUT
RGREV
SELECT & PHASE CORRECT
R0OUT
REAL
CF CHECK
FL01
CFOM
PALM
39 BKIN
64 NORM
41 BKO
38 XBK
BACK UP CONTROL
TEST PATTERN GEN
TEST1
REGEN CLOCK GEN
RELL 1
36 DEMI
35 DMCK
DEMO
3/4 DET
OVF
34 BER
33 DATA
32 DCLK
SYNC DET
LTRREV
COUNTER
READ DATA
ERROR BYPASS
AUTO
BYPASS
RELL1
DER
CTLHSN
ALU
TIMGEN
TC
LRA
LAI
CTL
ROM
X1
LRALD
RGNLD
RELLD
TIMLD
CTLLD
LRDLD
X1LD
IMTT
INTC
INTX
CTLREV
31 LREV
30 RSYC
26 CTLI
27 FWD
25 LTCI
21 REC
22 OUT
23 READ
62 XOUT
24 PBTC
LTC OUT SELECT
REC0
REC1
OUT0
OUT1
RD0
RD1
CTL DETECT
VARDT
RISE
MUTE
MUTEA
A
B
NORMAL
BYPASS OR AUTO
PB CF CHECK
20 X1TC
DEMO
XW08
XI+2
XI-2
3/4 DET
P/N
19 X1BE
SYNC DET
COUNTER
READ DATA
87 ALCK
92 DCCK
88 CK2M
89 CK1I
91 CK1O
13.5M CLOCK
DECS0
DECS1
STBY
93 INTE
73 XRES
74 BKUP
REGEN UB
REGEN TIME
RGRUN
CSRGTM
GEN UB
CSUBG
REAL
RLRUN
CSREAL
TIME
TMRUN
CSTCG
CTL
MUTE
CSCTL
READ TIME
CSLTCR
READ UB
CSLUBR
X1 TIME
CSX1TM
X1 UB
CSX1UB
STANDBY TIMER A
CSSTBY
STBRES
INTER-RUPT
INTTM, INTTO
INTCM, INTCO
INTEM, INTEO
INTLM, INTLO
INTXM, INTXO
INTRM, INTRO
MMV
D0-D7 99,100,1,2,5-8
ADDRESS DECODE
CSRGTM.CSU(X)
CSREAL.CSTCG
CSCTL.CSLTCR
CSLUBR.CSXITM
CSXIUB.CSSTBY
STBRES.XR06
XR07.XR08
A0-A5 12-14,16-18
CS 9
WR 10
RD 11
XW00-05 07,08,09
XR06,XR07,XR08
FLAG
CTLHSN
BER
DER
OVF
XI-2
XI+2
XIDER
LTRREV
INTTM
INTCM
INTEM
INTLM
INTXM
INTRM
INTTO
INTCO
INTEO
INTLO
INTXO
INTRO
CTLREV
DLY0-7
K10-2
K20-2
SEPEN
ENCEN
DECS0
DECS1
STBY
P/N
PALM
APLL
VARDT
RISE
MUTE
MUTEA
PHASE
CFOM
FLD1
RECO
RECI
RGOUT
OUT0
OUT1
RD0
RD1
DIRCT
CMPST
TMRUN
RLRUN
RGRUN
REAL
BYPAS
AUTO
RGREV
TMMSK
CTMSK
EXMSK
LRMSK
X1MSK
RGMSK
SK16
PMBF 69
NT4F 66
PL4F 67
PL8F 68
XINT 72
INTM 75
INTG 76
INTL 77
INTC 80
INTX 82
INTR 81

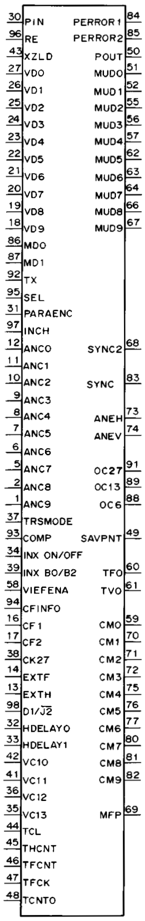
CXD8385Q (SONY)

C-MOS ENCODER
– TOP VIEW –


80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51
GND
VDD(+5V)
GND
GND
VDD(+5V)
81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
GND
50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31
GND
VDD(+5V)
GND
GND
VDD(+5V)
GND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

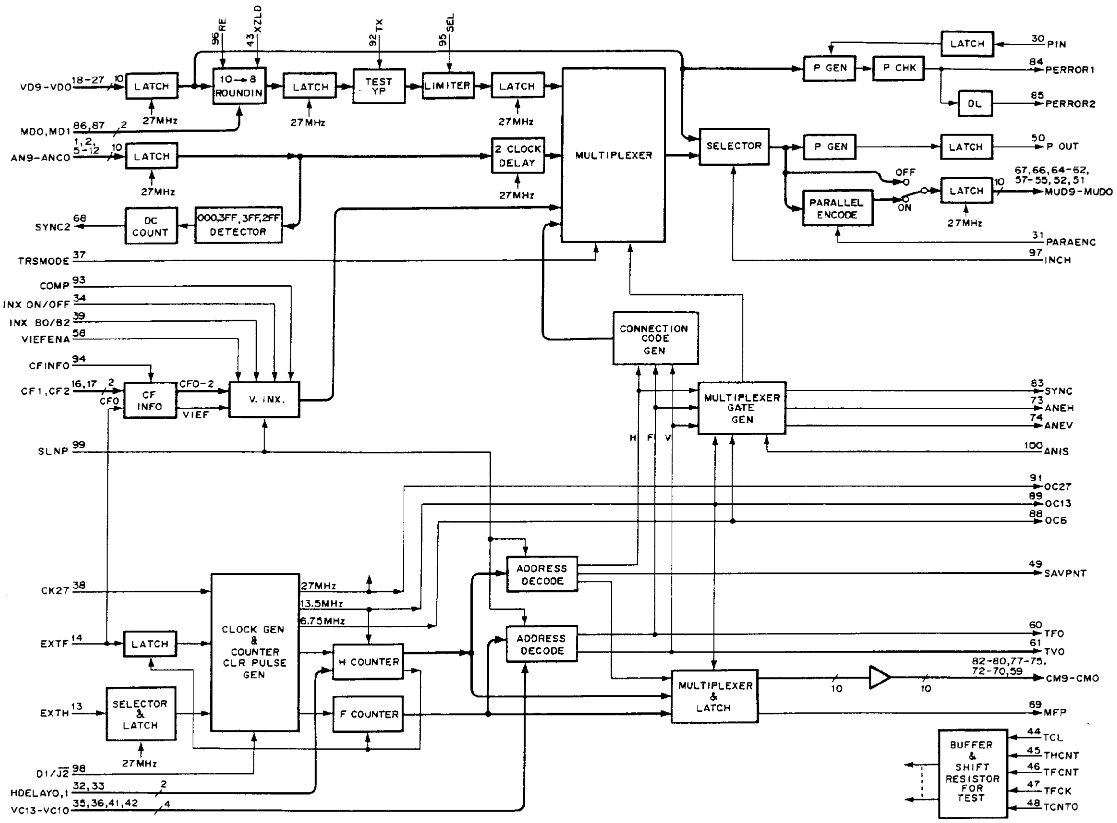
(VDD = + 5 V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGANL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	ANC9	26	I	VD1	51	O	MUD0	76	O	CM5
2	I	ANC8	27	I	VD0	52	O	MUD1	77	O	CM6
3	–	V_{DD}	28	–	V_{DD}	53	–	V_{DD}	78	–	V_{DD}
4	–	GND	29	–	GND	54	–	GND	79	–	GND
5	I	ANC7	30	I	PIN	55	O	MUD2	80	O	CM7
6	I	ANC6	31	I	PARAENC	56	O	MUD3	81	O	CM8
7	I	ANC5	32	I	HDELAY0	57	O	MUD4	82	O	CM9
8	I	ANC4	33	I	HDELAY1	58	I	VIEFENA	83	O	SYNC
9	I	ANC3	34	I	INX ON/OFF	59	O	CM0	84	O	PERROR1
10	I	ANC2	35	I	VC13	60	O	TFO	85	O	PERROR2
11	I	ANC1	36	I	VC12	61	O	TVO	86	I	MD0
12	I	ANC0	37	I	TRS MODE	62	O	MUD5	87	I	MD1
13	I	EXTH	38	I	CK27	63	O	MUD6	88	O	OC6
14	I	EXTF	39	I	INX B0/B2	64	O	MUD7	89	O	OC13
15	–	GND	40	–	GND	65	–	GND	90	–	GND
16	I	CF1	41	I	VC11	66	O	MUD8	91	O	OC27
17	I	CF2	42	I	VC10	67	O	MUD9	92	I	TX
18	I	VD9	43	I	XZLD	68	O	SYNC2	93	I	COMP
19	I	VD8	44	I	TCL	69	O	MFP	94	I	CFINFO
20	I	VD7	45	I	THCNT	70	O	CM1	95	I	SEL
21	I	VD6	46	I	TFCNT	71	O	CM2	96	I	RE
22	I	VD5	47	I	TFCK	72	O	CM3	97	I	INCH
23	I	VD4	48	I	TCNTO	73	O	ANEH	98	I	$D1/\overline{J2}$
24	I	VD3	49	O	SAVPNT	74	O	ANEV	99	I	SLNP
25	I	VD2	50	O	POUT	75	O	CM4	100	I	ANIS


30 PIN
96 RE
43 XZLD
27 VD0
26 VD1
25 VD2
24 VD3
23 VD4
22 VD5
21 VD6
20 VD7
19 VD8
18 VD9
86 MD0
87 MD1
92 TX
95 SEL
31 PARAENC
97 INCH
12 ANC0
11 ANC1
10 ANC2
9 ANC3
8 ANC4
7 ANC5
6 ANC6
5 ANC7
2 ANC8
1 ANC9
37 TRSMODE
93 COMP
34 INX ON/OFF
39 INX B0/B2
58 VIEFENA
94 CFINFO
16 CF1
17 CF2
38 CK27
14 EXTF
13 EXTH
98 D1/J2
32 HDELAY0
33 HDELAY1
42 VC10
41 VC11
36 VC12
35 VC13
44 TCL
45 THCNT
46 TFCNT
47 TFCK
48 TCNTO
PERROR1 84
PERROR2 85
POUT 50
MUD0 51
MUD1 52
MUD2 55
MUD3 56
MUD4 57
MUD5 62
MUD6 63
MUD7 64
MUD8 66
MUD9 67
SYNC2 68
SYNC 83
ANEH 73
ANEV 74
OC27 91
OC13 89
OC6 88
SAVPNT 49
TFO 60
TVO 61
CM0 59
CM1 70
CM2 71
CM3 72
CM4 75
CM5 76
CM6 77
CM7 80
CM8 81
CM9 82
MFP 69

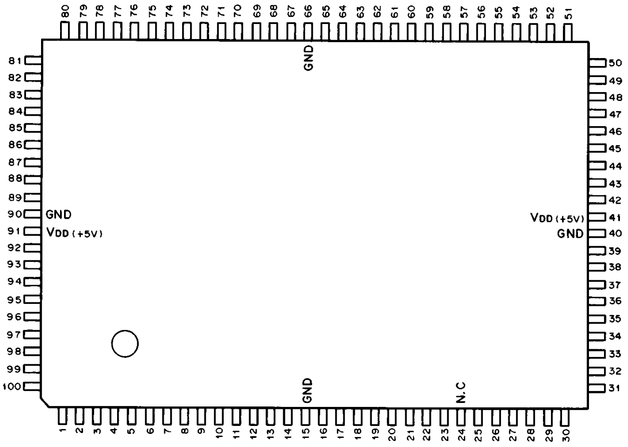
INPUT
ANC0 – ANC9 ; ANCILLARY DATA
ANIS ; ANC GATE CONTROL
CF1/CF2 ; CF DATA
CFINFO ; CFINFO CONTROL
CK27 ; 27 MHz CLOCK
COMP ; COMPOSIT/COMPONENT
D1/J2, SLNP ; MODE CONTROL
EXTF ; REF F
EXTH ; REF H
HDELAY0, HDELAY1
; JZ REF H TRS ADVANCE CONTROL
INCH, TCL, TCNTO, TFCK, TFCNT, THCNT, XZLD
; TEST PIN
INX ON/OFF, INX B0/B2, VIEFENA
; V. INX. CONTROL
PARAENC ; SCRAMBLE NRZ CONVERT ON/OFF
PIN ; PARITY
RE ; ROUND CONTROL
TRSMODE ; TRS 10-BIT/8-BIT SELECT
TX ; TEST PIN
VC10 – VC13 ; 525/60 V BLANK CONTROL
VD0 – VD9 ; VIDEO DATA

OUTPUT
ANEH, ANEV ; PULSE
CM0 – CM9 ; H, F COUNTER
MFP ; MULTIPLEX F COUNTER PULSE
MUD0 – MUD9 ; VIDEO DATA
OC13 ; 13.5 MHz CLOCK
OC27 ; 27 MHz CLOCK
OC6 ; 6.75 MHz CLOCK
PERROR1, PERROR2
; PARITY ERROR DETECT
POUT ; PARITY
SAVPNT ; SAV PULSE
SYNC, SYNC2 ; TIMING PULSE
TFO ; F MONITOR
TVO ; V MONITOR


VD9-VD0 18-27 10
LATCH
27MHz
96 RE
43 XZLD
10→8 ROUNDIN
MD0,MD1 86,87 2
LATCH
27MHz
92 TX
TEST YP
95 SEL
LIMITER
LATCH
27MHz
AN9-ANC0 1,2, 5-12 10
LATCH
27MHz
2 CLOCK DELAY
27MHz
MULTIPLEXER
SYNC2 68
DC COUNT
000,3FF,3FF,2FF DETECTOR
TRSMODE 37
COMP 93
INX ON/OFF 34
INX 80/82 39
VIEFENA 58
CFINFO 94
CF1,CF2 16,17 2
CF0
CF INFO
CF0-2
VIEF
V. INX.
SLNP 99
LATCH
30 PIN
P GEN
P CHK
84 PERROR1
DL
85 PERROR2
SELECTOR
P GEN
LATCH
50 P OUT
OFF
ON
PARALLEL ENCODE
LATCH
10
27MHz
67,66,64-62, 57-55,52,51 MUD9-MUD0
31 PARAENC
97 INCH
CONNECTION CODE GEN
H
F
V
MULTIPLEXER GATE GEN
83 SYNC
73 ANEH
74 ANEV
100 ANIS
91 OC27
89 OC13
88 OC6
CK27 38
CLOCK GEN & COUNTER CLR PULSE GEN
27MHz
13.5MHz
6.75MHz
ADDRESS DECODE
49 SAVPNT
EXTF 14
LATCH
H COUNTER
ADDRESS DECODE
60 TF0
61 TV0
EXTH 13
SELECTOR & LATCH
27MHz
F COUNTER
MULTIPLEXER & LATCH
10
10
82-80,77-75, 72-70,59 CM9-CM0
69 MFP
D1/J2 98
HDELAY0,1 32,33 2
VC13-VC10 35,36,41,42 4
BUFFER & SHIFT RESISTOR FOR TEST
44 TCL
45 THCNT
46 TFCNT
47 TFCK
48 TCNT0

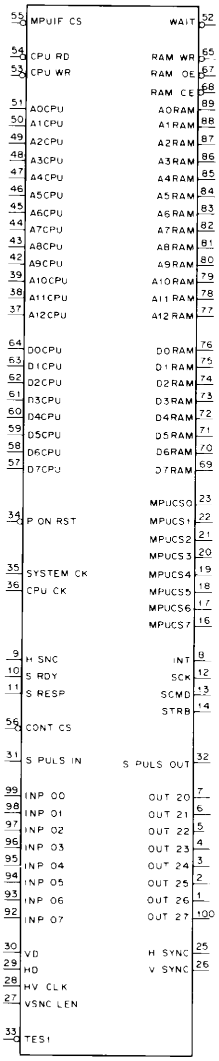
CXD8804Q (SONY)

C-MOS 8-MPU COMMUNICATION CONTROLLER WITH PARALLEL PORT
– TOP VIEW –


GND
GND
VDD (+5V)
VDD (+5V)
GND
GND
N.C
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

(VDD = + 5 V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	O	OUT26	26	O	V SYNC	51	I	A0 CPU	76	I/O	D0 RAM
2	O	OUT25	27	I	VSNC LEN	52	O	$\overline{\text{WAIT}}$	77	O	A12 RAM
3	O	OUT24	28	I	HV CLK	53	I	$\overline{\text{CPU WR}}$	78	O	A11 RAM
4	O	OUT23	29	I	HD	54	I	$\overline{\text{CPU RD}}$	79	O	A10 RAM
5	O	OUT22	30	I	VD	55	I	$\overline{\text{MPUIF CS}}$	80	O	A9 RAM
6	O	OUT21	31	I	S PULS IN	56	I	$\overline{\text{CONT CS}}$	81	O	A8 RAM
7	O	OUT20	32	O	S PULS OUT	57	I/O	D7 CPU	82	O	A7 RAM
8	O	INT	33	I	$\overline{\text{TES 1}}$	58	I/O	D6 CPU	83	O	A6 RAM
9	I	H SNC	34	I	$\overline{\text{P ON RST}}$	59	I/O	D5 CPU	84	O	A5 RAM
10	I	S RDY	35	I	SYSTEM CK	60	I/O	D4 CPU	85	O	A4 RAM
11	I	S RESP	36	I	CPU CK	61	I/O	D3 CPU	86	O	A3 RAM
12	O	SCK	37	I	A12 CPU	62	I/O	D2 CPU	87	O	A2 RAM
13	O	SCMD	38	I	A11 CPU	63	I/O	D1 CPU	88	O	A1 RAM
14	O	STRB	39	I	A10 CPU	64	I/O	D0 CPU	89	O	A0 RAM
15	–	GND	40	–	GND	65	O	$\overline{\text{RAM WR}}$	90	–	GND
16	O	MPUCS7	41	–	VDD	66	–	GND	91	–	VDD
17	O	MPUCS6	42	I	A9 CPU	67	O	$\overline{\text{RAM OE}}$	92	I	INP 07
18	O	MPUCS5	43	I	A8 CPU	68	O	$\overline{\text{RAM CE}}$	93	I	INP 06
19	O	MPUCS4	44	I	A7 CPU	69	I/O	D7 RAM	94	I	INP 05
20	O	MPUCS3	45	I	A6 CPU	70	I/O	D6 RAM	95	I	INP 04
21	O	MPUCS2	46	I	A5 CPU	71	I/O	D5 RAM	96	I	INP 03
22	O	MPUCS1	47	I	A4 CPU	72	I/O	D4 RAM	97	I	INP 02
23	O	MPUCS0	48	I	A3 CPU	73	I/O	D3 RAM	98	I	INP 01
24	–	N.C	49	I	A2 CPU	74	I/O	D2 RAM	99	I	INP 00
25	O	H SYNC	50	I	A1 CPU	75	I/O	D1 RAM	100	O	OUT 27


55 MPUIF CS
52 WAIT
54 CPU RD
65 RAM WR
53 CPU WR
67 RAM OE
68 RAM CE
51 A0CPU
89 A0RAM
50 A1CPU
88 A1RAM
49 A2CPU
87 A2RAM
48 A3CPU
86 A3RAM
47 A4CPU
85 A4RAM
46 A5CPU
84 A5RAM
45 A6CPU
83 A6RAM
44 A7CPU
82 A7RAM
43 A8CPU
81 A8RAM
42 A9CPU
80 A9RAM
39 A10CPU
79 A10RAM
38 A11CPU
78 A11RAM
37 A12CPU
77 A12RAM
64 D0CPU
76 D0RAM
63 D1CPU
75 D1RAM
62 D2CPU
74 D2RAM
61 D3CPU
73 D3RAM
60 D4CPU
72 D4RAM
59 D5CPU
71 D5RAM
58 D6CPU
70 D6RAM
57 D7CPU
69 D7RAM
MPUCS0 23
MPUCS1 22
34 P ON RST
MPUCS2 21
MPUCS3 20
35 SYSTEM CK
MPUCS4 19
36 CPU CK
MPUCS5 18
MPUCS6 17
MPUCS7 16
9 H SNC
INT 8
10 S RDY
SCK 12
11 S RESP
SCMD 13
STRB 14
56 CONT CS
31 S PULS IN
S PULS OUT 32
99 INP 00
OUT 20 7
98 INP 01
OUT 21 6
97 INP 02
OUT 22 5
96 INP 03
OUT 23 4
95 INP 04
OUT 24 3
94 INP 05
OUT 25 2
93 INP 06
OUT 26 1
92 INP 07
OUT 27 100
30 VD
H SYNC 25
29 HD
V SYNC 26
28 HV CLK
27 VSNC LEN
33 TES1

INPUT

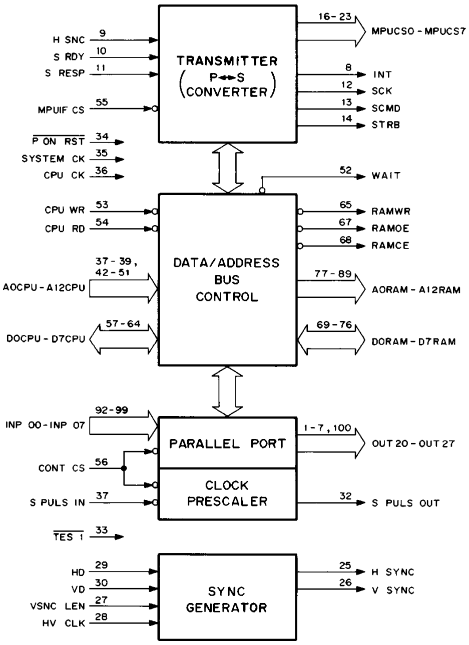
A0CPU – A12CPU ; CPU ADDRESS BUS
CONT CS ; INTERNAL/PARALLEL PORT
CPU CK ; CPU CLOCK
CPU RD ; CPU READ STROBU
CPU WR ; CPU WRITE STROBU
HD ; VIDEO HORIZONTAL SYNCHRONIZING PULSE
H SNC ; SIRIAL RECEVE WAIT
HV CLK ; VIDEO VERTICAL SAMPLING PULSE (13.5 MHz)
INP 00 – 07 ; PARALLEL PORT
MPUIF CS ; EXTERNAL RAM CHIP SELECT
P ON RST ; POWER IN RESET (L)
S PULS ; MEDIOCRITY CLOCK PULSE
S RDY ; SIRIAL TRANSMISSION LEADY
S RESP ; SIRIAL RECEVE DATA
SYSTEM CK ; SYSTEM CLOCK
TES 1 ; TEST (L)
VD ; VIDEO VERTICAL SYNCHRONIZING PULSE
VSNC LEN ; VIDEO VERTICAL SYNCHRONIZING PULSE OUTPUT WIDTH CONTROL

OUTPUT

A0RAM – A12RAM ; EXTERNAL RAM ADDRESS BUS
H SYNC ; VIDEO HORIZONTAL SYNCHRONIZING PULSE
INT ; SIRIAL RECEVE END
MPUCS0 – MPUCS7 ; SIRIAL CORRESPONDENCE ENABLE
OUT 20 – 27 ; PARALLEL PORT
RAM CE ; EXTERNAL RAM CHIP SELECT
RAM OE ; EXTERNAL RAM OUTPUT ENABLE
RAM WR ; EXTERNAL RAM WRITE STROBE
SCK ; SIRIAL CORRESPONDENCE CLOCK
SCMD ; SIRIAL TRANSMISSION DATA
S PULS ; MEDIOCRITY CLOCK PULSE FREQUENCY (1/2 – 1/27)
STRB ; SIRIAL TRANSMISSION STROBE
V SYNC ; VIDEO VERTICAL SYNCHRONIZING PULSE
WAIT ; CPU WAIT

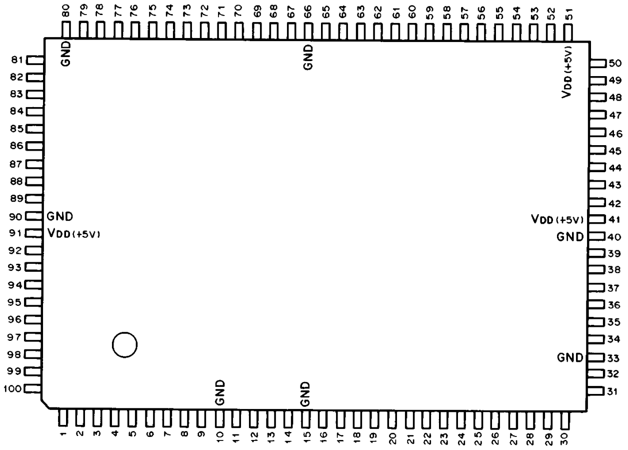
INPUT/OUTPUT

D0CPU – D7CPU ; CPU DATA BUS
D0RAM – D7RAM ; EXTERNAL RAM DATA BUS


TRANSMITTER (P↔S CONVERTER)
H SNC 9
S RDY 10
S RESP 11
MPUIF CS 55
16-23 MPUCS0 - MPUCS7
8 INT
12 SCK
13 SCMD
14 STRB
P ON RST 34
SYSTEM CK 35
CPU CK 36
52 WAIT
DATA/ADDRESS BUS CONTROL
CPU WR 53
CPU RD 54
65 RAMWR
67 RAMOE
68 RAMCE
37-39, 42-51 A0CPU - A12CPU
77-89 A0RAM - A12RAM
57-64 D0CPU - D7CPU
69-76 D0RAM - D7RAM
PARALLEL PORT
92-99 INP 00-INP 07
1-7, 100 OUT 20 - OUT 27
CONT CS 56
CLOCK PRESCALER
S PULS IN 37
32 S PULS OUT
TES 1 33
SYNC GENERATOR
HD 29
VD 30
VSNC LEN 27
HV CLK 28
25 H SYNC
26 V SYNC

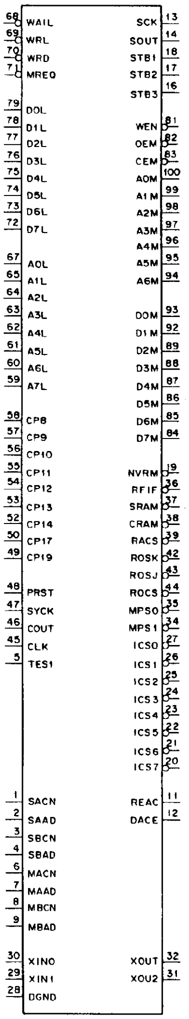
CXD8805Q (SONY)

C-MOS RF BLOCK DIGITAL CONTROL INTERFACE
– TOP VIEW –


GND
GND
VDD (+5V)
GND
VDD (+5V)
VDD (+5V)
GND
GND
GND
GND

(V_{DD} = + 5V)

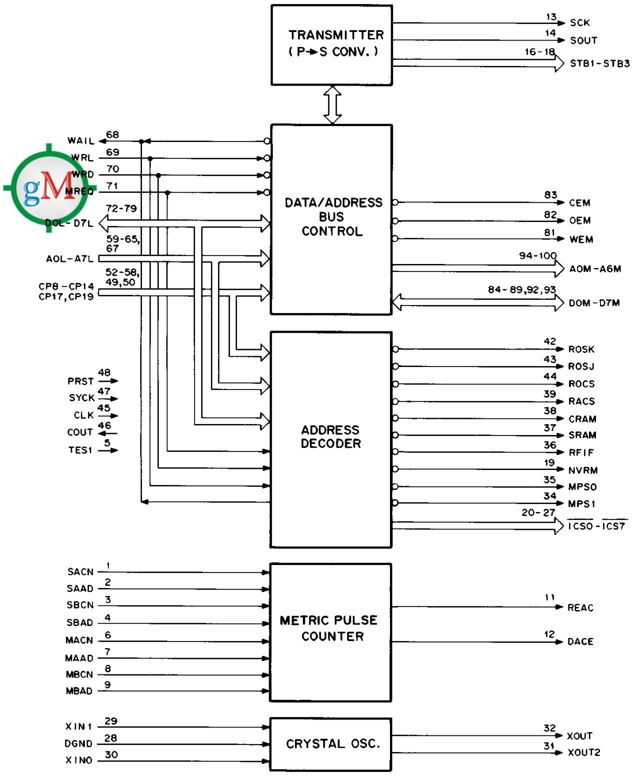
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	SACN	26	O	$\overline{\text{ICS1}}$	51	–	V_{DD}	76	I/O	D3L
2	I	SAAD	27	O	$\overline{\text{ICS0}}$	52	I	CP14	77	I/O	D2L
3	I	SBCN	28	O	D GND	53	I	CP13	78	I/O	D1L
4	I	SBAD	29	O	XIN1	54	I	CP12	79	I/O	D0L
5	I	TES1	30	I	XIN0	55	I	CP11	80	–	GND
6	I	MACN	31	O	XOU2	56	I	CP10	81	O	$\overline{\text{WEM}}$
7	I	MAAD	32	O	XOUT	57	I	CP9	82	O	$\overline{\text{OEM}}$
8	I	MBCN	33	–	GND	58	I	CP8	83	O	$\overline{\text{CEM}}$
9	I	MBAD	34	O	$\overline{\text{MPS1}}$	59	I	A7L	84	I/O	D7M
10	–	GND	35	O	$\overline{\text{MPS0}}$	60	I	A6L	85	I/O	D6M
11	O	REAC	36	O	$\overline{\text{RFIF}}$	61	I	A5L	86	I/O	D5M
12	O	DACE	37	O	$\overline{\text{SRAM}}$	62	I	A4L	87	I/O	D4M
13	O	SCK	38	O	$\overline{\text{CRAM}}$	63	I	A3L	88	I/O	D3M
14	O	SOUT	39	O	$\overline{\text{RACS}}$	64	I	A2L	89	I/O	D2M
15	–	GND	40	–	GND	65	I	A1L	90	–	GND
16	O	STB3	41	–	V_{DD}	66	–	GND	91	–	V_{DD}
17	O	STB2	42	O	$\overline{\text{ROSK}}$	67	I	A0L	92	I/O	D1M
18	O	STB1	43	O	$\overline{\text{ROSJ}}$	68	O	$\overline{\text{WAIL}}$	93	I/O	D0M
19	O	NVRM	44	O	$\overline{\text{ROCS}}$	69	I	$\overline{\text{WRL}}$	94	O	A6M
20	O	$\overline{\text{ICS7}}$	45	I	CLK	70	I	$\overline{\text{WRD}}$	95	O	A5M
21	O	$\overline{\text{ICS6}}$	46	O	C OUT	71	I	$\overline{\text{MREQ}}$	96	O	A4M
22	O	$\overline{\text{ICS5}}$	47	I	SYCK	72	I/O	D7L	97	O	A3M
23	O	$\overline{\text{ICS4}}$	48	I	PRST	73	I/O	D6L	98	O	A2M
24	O	$\overline{\text{ICS3}}$	49	I	CP19	74	I/O	D5L	99	O	A1M
25	O	$\overline{\text{ICS2}}$	50	I	CP17	75	I/O	D4L	100	O	A0M


WAIL
WRL
WRD
MREQ
D0L
D1L
D2L
D3L
D4L
D5L
D6L
D7L
A0L
A1L
A2L
A3L
A4L
A5L
A6L
A7L
CP8
CP9
CP10
CP11
CP12
CP13
CP14
CP17
CP19
PRST
SYCK
COUT
CLK
TES1
SACN
SAAD
SBCN
SBAD
MACN
MAAD
MBCN
MBAD
XIN0
XIN1
DGND
SCK
SOUT
STB1
STB2
STB3
WEN
OEM
CEM
A0M
A1M
A2M
A3M
A4M
A5M
A6M
D0M
D1M
D2M
D3M
D4M
D5M
D6M
D7M
NVRM
RFIF
SRAM
CRAM
RACS
ROSK
ROSJ
ROCS
MPS0
MPS1
ICS0
ICS1
ICS2
ICS3
ICS4
ICS5
ICS6
ICS7
REAC
DACE
XOUT
XOU2

INPUT
A0L – A7L ; CPU ADDRESS BUS (LOW ORDER)
CLK ; CPU CLOCK
CP8 – CP14, CP17, CP19 ; CPU ADDRESS BUS (UPPER ORDER)
D GND ; CRYSTAL OSCILLATOR CIRCUIT GND
MAAD ; METRIC PULSE INPUT ADV – AC
MACN ; METRIC PULSE INPUT CONFI – AC
MBAD ; METRIC PULSE INPUT ADV – BD
MBCN ; METRIC PULSE INPUT CONFI – BD
MREQ ; CPU MEMORY REQUEST
PRST ; POWER ON RESET
SAAD ; HEAD SELECT INPUT ADV – AC
SACN ; HEAD SELECT INPUT CONFI – AC
SBAD ; HEAD SELECT INPUT ADV – BD
SBCN ; HEAD SELECT INPUT CONFI – BD
SYCK ; SYSTEM CLOCK
WRD ; CPU READ STROBE
WRL ; CPU WRITE STROBE
XIN0 ; CRYSTAL INPUT 0
XIN1 ; CRYSTAL INPUT 1

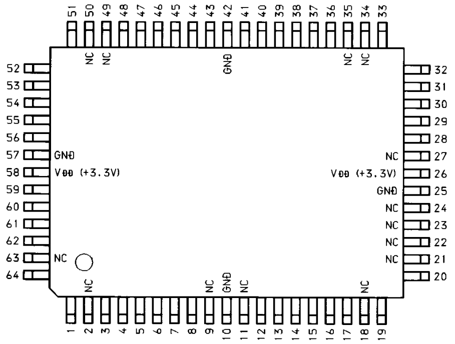
OUTPUT
A0M – A6M ; EXTERNAL RAM ADDRESS BUS
CEM ; EXTERNAL RAM CHIP SELECT
COUT ; CKL INPUT 2FREQUENCY
CRAM ; ADDRESS DECODER
DACE ; METRIC DATA COUNT END
ICS0 – ICS7 ; ADDRESS DECODER
MPS0, MPS1 ; ADDRESS DECODER
NVRM ; ADDRESS DECODER
OEM ; EXTERNAL OUTPUT ENABLE
RACS ; ADDRESS DECODER
REAC ; METRIC DATA A/C DETECTOR
RFIF ; ADDRESS DECODER
ROCS ; ADDRESS DECODER
ROSJ ; ADDRESS DECODER
ROSK ; ADDRESS DECODER
SCK ; SERIAL TRANSMISSION CLOCK
SOUT ; SERIAL TRANSMISSION DATA
STB1 – STB3 ; SERIAL TRANSMISSION STROBE1 – 3
SRAM ; ADDRESS DECODER
WAIL ; CPU WAIT
WEM ; EXTERNAL RAM WRITE STROBE
XOUT ; CRYSTAL OSCILLATOR OUTPUT
XOU2 ; CRYSTAL OSCILLATOR OUTPUT 2

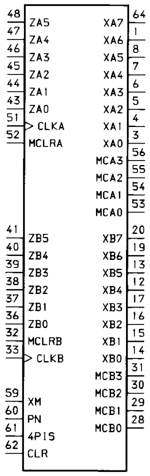
INPUT/OUTPUT
D0L – D7L ; CPU DATA BUS
D0M – D7M ; EXTERNAL RAM DATA BUS


TRANSMITTER
(P→S CONV.)
DATA/ADDRESS
BUS
CONTROL
ADDRESS
DECODER
METRIC PULSE
COUNTER
CRYSTAL OSC.
SCK
SOUT
STB1 - STB3
WAIL
WRL
WRD
MREQ
D0L - D7L
A0L - A7L
CP8 - CP14
CP17, CP19
CEM
OEM
WEM
A0M - A6M
D0M - D7M
PRST
SYCK
CLK
COUT
TES1
ROSK
ROSJ
ROCS
RACS
CRAM
SRAM
RFIF
NVRM
MPS0
MPS1
ICS0 - ICS7
SACN
SAAD
SBCN
SBAD
MACN
MAAD
MBCN
MBAD
REAC
DACE
XIN1
DGND
XIN0
XOUT
XOUT2

CXD8815Q (SONY)

C-MOS VITERBI DECODER
– TOP VIEW –


51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33
NC NC GND NC NC
52 53 54 55 56 57 58 59 60 61 62 63 64
GND
VDD (+3.3V)
NC
32 31 30 29 28 27 26 25 24 23 22 21 20
NC
VDD (+3.3V)
GND
NC NC NC NC
NC GND NC NC
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19


48 ZA5
47 ZA4
46 ZA3
45 ZA2
44 ZA1
43 ZA0
51 CLKA
52 MCLRA
41 ZB5
40 ZB4
39 ZB3
38 ZB2
37 ZB1
36 ZB0
32 MCLRB
33 CLKB
59 XM
60 PN
61 4PIS
62 CLR
XA7 64
XA6 1
XA5 8
XA4 7
XA3 6
XA2 5
XA1 4
XA0 3
MCA3 56
MCA2 55
MCA1 54
MCA0 53
XB7 20
XB6 19
XB5 13
XB4 12
XB3 17
XB2 16
XB1 15
XB0 14
MCB3 31
MCB2 30
MCB1 29
MCB0 28

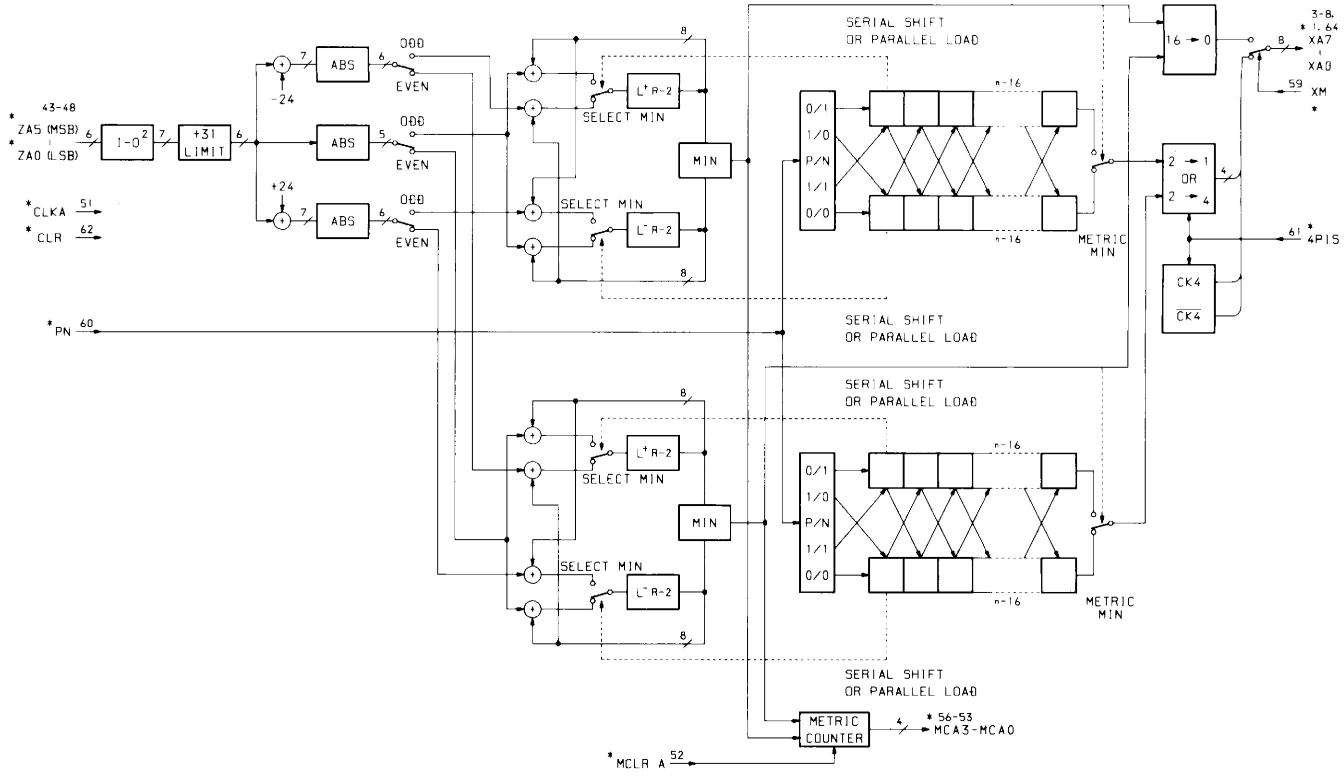
CHANNEL A
CLKA :CLOCK OF CHANNEL A
MCA0-3 :4 BIT METRIC COUNTER OF CHANNEL A
MCLRA :METRIC COUNTER CLEAR OF CHANNEL A
XA0-7 :8 BIT CHANNEL A OUT
ZA0-5 :6 BIT CHANNEL A IN

CHANNEL B
CLKB :CLOCK OF CHANNEL B
MCB0-3 :4 BIT METRIC COUNTER OF CHANNEL B
MCLRB :METRIC COUNTER CLEAR OF CHANNEL B
XB0-7 :8 BIT CHANNEL B OUT
ZB0-5 :6 BIT CHANNEL B IN

OTHERS
CLR :ALL CLEAR
PN :SELECTOR OF PR (1, 0, -1) & NRZ
XM :SELECTOR OF DECODE & METRIC OUT
4PIS :SELECTOR OF 4 PARALLEL & SERIAL DATA

(VDD =+3.3V)

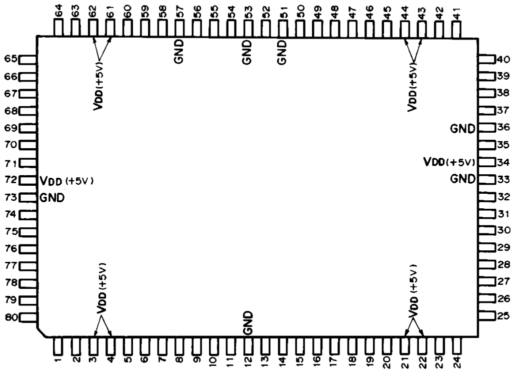
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	OUT	XA6	17	OUT	XB3	33	IN	CLKB	49	–	NC
2	–	NC	18	–	NC	34	–	NC	50	–	NC
3	OUT	XA0	19	OUT	XB6	35	–	NC	51	IN	CLKA
4	OUT	XA1	20	OUT	XB7	36	IN	ZB0	52	IN	MCLRA
5	OUT	XA2	21	–	NC	37	IN	ZB1	53	OUT	MCA0
6	OUT	XA3	22	–	NC	38	IN	ZB2	54	OUT	MCA1
7	OUT	XA4	23	–	NC	39	IN	ZB3	55	OUT	MCA2
8	OUT	XA5	24	–	NC	40	IN	ZB4	56	OUT	MCA3
9	–	NC	25	–	GND	41	IN	ZB5	57	–	GND
10	–	GND	26	–	VDD	42	–	GND	58	–	VDD
11	–	NC	27	–	NC	43	IN	ZA0	59	IN	XM
12	OUT	XB4	28	OUT	MCB0	44	IN	ZA1	60	IN	PN
13	OUT	XB5	29	OUT	MCB1	45	IN	ZA2	61	IN	4PIS
14	OUT	XB0	30	OUT	MCB2	46	IN	ZA3	62	IN	CLR
15	OUT	XB1	31	OUT	MCB3	47	IN	ZA4	63	–	NC
16	OUT	XB2	32	IN	MCLRB	48	IN	ZA5	64	OUT	XA7


43-48
* ZA5 (MSB)
* ZA0 (LSB)
6
I-0
2
7
+31 LIMIT
6
*CLKA 51
*CLR 62
*PN 60
-24
+24
7
ABS
6
5
ODD
EVEN
SELECT MIN
L+ R-2
L- R-2
MIN
8
SERIAL SHIFT
OR PARALLEL LOAD
0/1
1/0
P/N
1/1
0/0
n-16
METRIC MIN
16 → 0
8
3-8,
* 1, 64
XA7
XA0
59
XM
2 → 1
OR
2 → 4
4
61
* 4PIS
CK4
CK4
METRIC COUNTER
4
* 56-53
MCA3-MCA0
*MCLR A 52

*:B channel BLOCK is the same as A channel BLOCK

CXD8817Q (SONY)

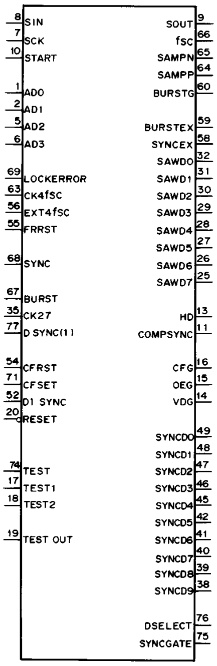
C-MOS VIDEO TIMING SIGNAL GENERATOR
– TOP VIEW –



VDD (+5V)
GND
VDD (+5V)
GND
VDD(+5V)
GND
VDD (+5V)
GND
VDD (+5V)
GND
VDD (+5V)

(VDD = + 5 V)

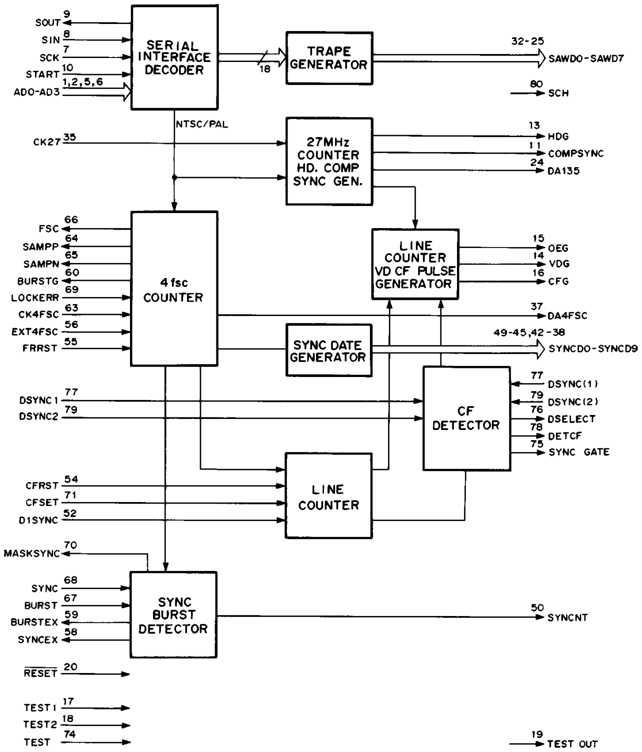
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGANL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	AD0	21	–	VDD	41	O	SYNCD6	61	–	VDD
2	I	AD1	22	–	VDD	42	O	SYNCD5	62	–	VDD
3	–	VDD	23	–	NC	43	–	VDD	63	I	CK4FSC
4	–	VDD	24	O	DA135	44	–	VDD	64	O	SAMPP
5	I	AD2	25	O	SAWD7	45	O	SYNCD4	65	O	SAMPN
6	I	AD3	26	O	SAWD6	46	O	SYNCD3	66	O	FSC
7	I	SCK	27	O	SAWD5	47	O	SYNCD2	67	I	BURST
8	I	SIN	28	O	SAWD4	48	O	SYNCD1	68	I	SYNC
9	O	SOUT	29	O	SAWD3	49	O	SYNCD0	69	I	LOCKERR
10	I	START	30	O	SAWD2	50	O	SYNCNT	70	O	MASKSYNC
11	O	COMPSYNC	31	O	SAWD1	51	–	GND	71	I	CFSET
12	–	GND	32	O	SAWD0	52	I	D1SYNC	72	–	VDD
13	O	HDG	33	–	GND	53	–	GND	73	–	GND
14	O	VDG	34	–	VDD	54	I	CFRST	74	I	TEST
15	O	OEG	35	I	CK27	55	I	FRRST	75	O	SYNCGATE
16	O	CFG	36	–	GND	56	I	EXT4FSC	76	O	DSELECT
17	I	TEST1	37	O	DA4FSC	57	–	GND	77	I	DSYNC1
18	I	TEST2	38	O	SYNCD9	58	O	SYNCEX	78	O	DETCF
19	O	TESTOUT	39	O	SYNCD8	59	O	BURSTEX	79	I	DSYNC2
20	I	RESET	40	O	SYNCD7	60	O	BURSTG	80	O	SCH



SIN
SCK
START
AD0
AD1
AD2
AD3
LOCKERROR
CK4fsc
EXT4fsc
FRRST
SYNC
BURST
CK27
D SYNC(1)
CFRST
CFSET
D1 SYNC
RESET
TEST
TEST1
TEST2
TEST OUT
SOUT
fsc
SAMPN
SAMPP
BURSTG
BURSTEX
SYNCEX
SAWD0
SAWD1
SAWD2
SAWD3
SAWD4
SAWD5
SAWD6
SAWD7
HD
COMPSYNC
CFG
OEG
VDG
SYNCD0
SYNCD1
SYNCD2
SYNCD3
SYNCD4
SYNCD5
SYNCD6
SYNCD7
SYNCD8
SYNCD9
DSELECT
SYNCGATE

INPUT
AD0 – AD3 ; SERIAL PRESET ADDRESS
BURST ; REFERENCE BURST INPUT
CFRST ; CF RESET FOR D2 LOCK
CFSET ; EXTERNAL CF PULSE INPUT
CK27 ; 27MHz CLOCK
CK4FSC ; 4FSC CLOCK
D1SYNC ; D1 SYNC FOR D1 LOCK
DSYNC1 ; DELAYED SYNC FOR CF DET
DSYNC2 ; DELAYED SYNC FOR SCH DET
EXT4FSC ; EXTERNAL 4FSC CLOCK
FRRST ; FRAME RESET FOR D2 LOCK
LOCKERR ; 4FSC PLL LOCK ERROR
RESET ; POWER ON RESET
SCK ; SERIAL CLOCK
SIN ; SERIAL DATA INPUT
START ; SERIAL START PULSE
SYNC ; REFERENCE SYNC INPUT
TEST ; TEST PIN
TEST1, 2 ; TEST PINS

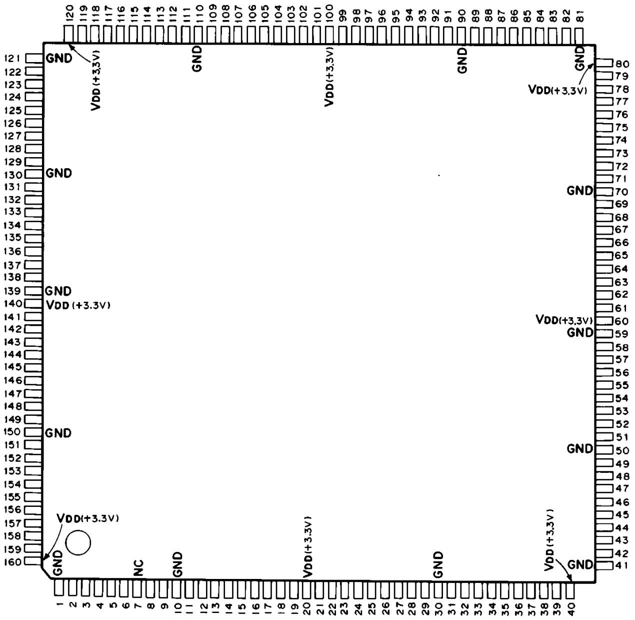
OUTPUT
BURSTEX ; BURST EXIST : H
BURSTG ; BURST SAMPLE PULSE FOR NTSC
CFG ; COLOR FRAMING PULSE
COMPSYNC ; COMPOSITE SYNC
DA135 ; 13.5 MHz CLOCK
DA4FSC ; 4FSC CLOCK
DETCF ; DETECTED COLOR FRAMING
DSELECT ; HYSTERESIS CONTROLE FOR CF DET
FSC ; FSC CLOCK
HDG ; HD PULSE
MASKSYNC ; GATED SYNC
OEG ; ODD/EVEN PULSE
SAMPN ; BURST SAMPLE (–) FOR PAL
SAMPP ; BURST SAMPLE (+) FOR PAL
SAWD0 – SAWD7 ; 27 MHz SAW-TOOTH DATA (0 – 7)
SCH ; DETECTED SCH
SOUT ; SERIAL DATA OUTPUT
SYNCD0 – SYNCD9 ; 4FSC SYNC DATA (0 – 9)
SYNCEX ; SYNC EXIST : H
SYNCGATE ; SELECTED SYNC FOR CF DET
SYNCNT ; 4FSC SYNC FOR NTSC
TESTOUT ; TEST PIN
VDG ; VD PULSE

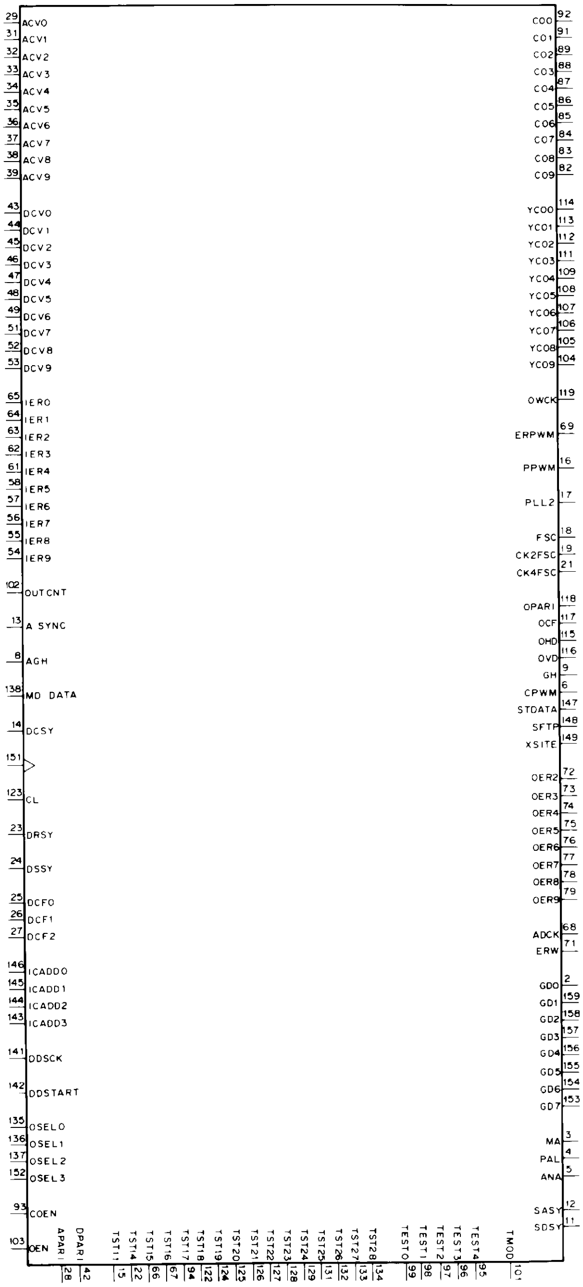


SOUT 9
SIN 8
SCK 7
START 10
AD0-AD3 1,2,5,6
SERIAL INTERFACE DECODER
18
TRAPE GENERATOR
32-25 SAWD0-SAWD7
80 SCH
NTSC/PAL
CK27 35
27MHz COUNTER HD. COMP SYNC GEN.
13 HDG
11 COMPSYNC
24 DA135
FSC 66
SAMPP 64
SAMPN 65
BURSTG 60
LOCKERR 69
CK4FSC 63
EXT4FSC 56
FRRST 55
4fsc COUNTER
LINE COUNTER VD CF PULSE GENERATOR
15 OEG
14 VDG
16 CFG
37 DA4FSC
SYNC DATE GENERATOR
49-45,42-38 SYNCD0-SYNCD9
DSYNC1 77
DSYNC2 79
CF DETECTOR
77 DSYNC(1)
79 DSYNC(2)
76 DSELECT
78 DETCF
75 SYNC GATE
CFRST 54
CFSET 71
D1SYNC 52
LINE COUNTER
MASKSYNC 70
SYNC 68
BURST 67
BURSTEX 59
SYNCEX 58
SYNC BURST DETECTOR
50 SYNCNT
RESET 20
TEST1 17
TEST2 18
TEST 74
19 TEST OUT

CXD8819AQ (FUJITSU)

C-MOS DIGITAL VIDEO SIGNAL DECODER
– TOP VIEW –


GND
VDD(+3.3V)
GND
VDD(+3.3V)
GND
GND
VDD(+3.3V)
GND
GND
GND
VDD (+3.3V)
VDD(+3.3V)
GND
GND
GND
VDD(+3.3V)
GND
NC
GND
VDD(+3.3V)
GND
VDD(+3.3V)
GND

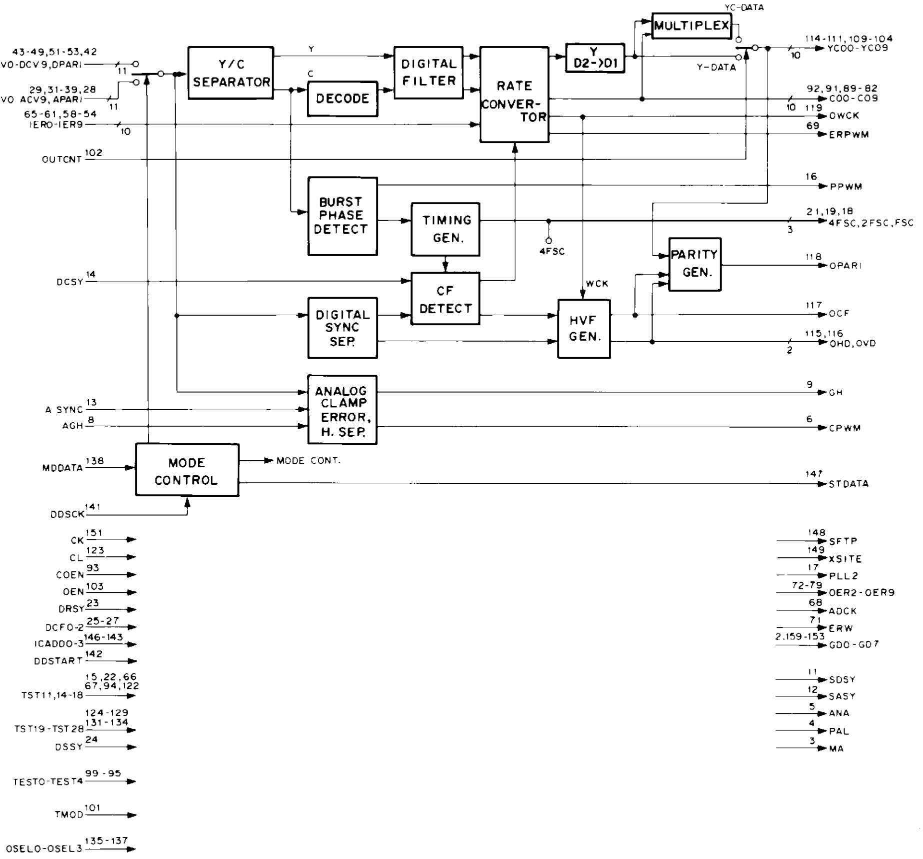

29 ACV0
31 ACV1
32 ACV2
33 ACV3
34 ACV4
35 ACV5
36 ACV6
37 ACV7
38 ACV8
39 ACV9
43 DCV0
44 DCV1
45 DCV2
46 DCV3
47 DCV4
48 DCV5
49 DCV6
51 DCV7
52 DCV8
53 DCV9
65 IER0
64 IER1
63 IER2
62 IER3
61 IER4
58 IER5
57 IER6
56 IER7
55 IER8
54 IER9
102 OUTCNT
13 A SYNC
8 AGH
138 MD DATA
14 DCSY
151
123 CL
23 DRSY
24 DSSY
25 DCF0
26 DCF1
27 DCF2
146 ICADD0
145 ICADD1
144 ICADD2
143 ICADD3
141 DDSCK
142 DDSTART
135 OSEL0
136 OSEL1
137 OSEL2
152 OSEL3
93 COEN
103 OEN
CO0 92
CO1 91
CO2 89
CO3 88
CO4 87
CO5 86
CO6 85
CO7 84
CO8 83
CO9 82
YCO0 114
YCO1 113
YCO2 112
YCO3 111
YCO4 109
YCO5 108
YCO6 107
YCO7 106
YCO8 105
YCO9 104
OWCK 119
ERPWM 69
PPWM 16
PLL2 17
FSC 18
CK2FSC 19
CK4FSC 21
OPARI 118
OCF 117
OHD 115
OVD 116
GH 9
CPWM 6
STDATA 147
SFTP 148
XSITE 149
OER2 72
OER3 73
OER4 74
OER5 75
OER6 76
OER7 77
OER8 78
OER9 79
ADCK 68
ERW 71
GD0 2
GD1 159
GD2 158
GD3 157
GD4 156
GD5 155
GD6 154
GD7 153
MA 3
PAL 4
ANA 5
SASY 12
SDSY 11
APARI 28
DPARI 42
TST11 15
TST14 22
TST15 66
TST16 67
TST17 94
TST18 122
TST19 124
TST20 125
TST21 126
TST22 127
TST23 128
TST24 129
TST25 131
TST26 132
TST27 133
TST28 134
TEST0 99
TEST1 98
TEST2 97
TEST3 96
TEST4 95
TMOD 101

(V_{DD} = + 3.3 V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	–	GND	41	–	GND	81	–	GND	121	–	GND
2	O	GD0	42	I	DPARI	82	O	CO9	122	I	TST18
3	O	MA	43	I	DCV0	83	O	CO8	123	I	CL
4	O	PAL	44	I	DCV1	84	O	CO7	124	I	TST19
5	O	ANA	45	I	DCV2	85	O	CO6	125	I	TST20
6	O	CPWM	46	I	DCV3	86	O	CO5	126	I	TST21
7	–	NC	47	I	DCV4	87	O	CO4	127	I	TST22
8	I	AGH	48	I	DCV5	88	O	CO3	128	I	TST23
9	O	GH	49	I	DCV6	89	O	CO2	129	I	TST24
10	–	GND	50	–	GND	90	–	GND	130	–	GND
11	O	SDSY	51	I	DCV7	91	O	CO1	131	I	TST25
12	O	SASY	52	I	DCV8	92	O	CO0	132	I	TST26
13	I	ASYNC	53	I	DCV9	93	I	COEN	133	I	TST27
14	I	DCSY	54	I	IER9	94	I	TST17	134	I	TST28
15	I	TST11	55	I	IER8	95	I	TEST4	135	I	OSEL0
16	O	PPWM	56	I	IER7	96	I	TEST3	136	I	OSEL1
17	O	PLL2	57	I	IER6	97	I	TEST2	137	I	OSEL2
18	O	FSC	58	I	IER5	98	I	TEST1	138	I	MDDATA
19	O	CK2FSC	59	–	GND	99	I	TEST0	139	–	GND
20	–	V_{DD}	60	–	V_{DD}	100	–	V_{DD}	140	–	V_{DD}
21	O	CK4FSC	61	I	IER4	101	I	TMOD	141	I	DD SCK
22	I	TST14	62	I	IER3	102	I	OUTCNT	142	I	DDSTART
23	I	DRSY	63	I	IER2	103	I	OEN	143	I	ICADD3
24	I	DSSY	64	I	IER1	104	O	YCO9	144	I	ICADD2
25	I	DCF0	65	I	IER0	105	O	YCO8	145	I	ICADD1
26	I	DCF1	66	I	TST15	106	O	YCO7	146	I	ICADD0
27	I	DCF2	67	I	TST16	107	O	YCO6	147	O	STDATA
28	I	APARI	68	O	ADCK	108	O	YCO5	148	O	SFTP
29	I	ACV0	69	O	ERPWM	109	O	YCO4	149	O	XSITE
30	–	GND	70	–	GND	110	–	GND	150	–	GND
31	I	ACV1	71	O	ERW	111	O	YCO3	151	I	CK
32	I	ACV2	72	O	OER2	112	O	YCO2	152	I	OSEL3
33	I	ACV3	73	O	OER3	113	O	YCO1	153	O	GD7
34	I	ACV4	74	O	OER4	114	O	YCO0	154	O	GD6
35	I	ACV5	75	O	OER5	115	O	OHD	155	O	GD5
36	I	ACV6	76	O	OER6	116	O	OVD	156	O	GD4
37	I	ACV7	77	O	OER7	117	O	OCF	157	O	GD3
38	I	ACV8	78	O	OER8	118	O	OPARI	158	O	GD2
39	I	ACV9	79	O	OER9	119	O	OWCK	159	O	GD1
40	–	V_{DD}	80	–	V_{DD}	120	–	V_{DD}	160	–	V_{DD}

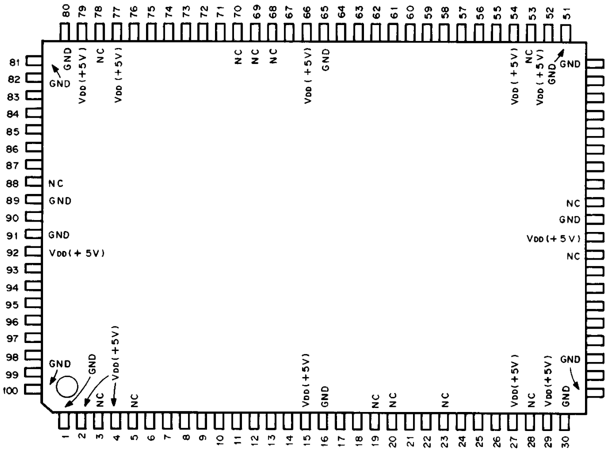
INPUT
ACV0 – ACV9 ; ANALOG INPUT DATA (0 – 9)
AGH ; ANALOG GATED H
APARI ; PARITY OF ANALOG INPUT DATA
ASYNC ; ANALOG COMPOSITE SYNC
CK ; INPUT 8fsc CK
CL ; POWER ON RESET
COEN ; CHROMA OUTPUT ENABLE
DCF0 – DCF2 ; D2 INPUT CF (0 – 2)
DCSY ; DELAYED COMPOSITE SYNC
DCV0 – DCV9 ; DIGITAL INPUT DATA (0 – 9)
DDSCK ; CK FOR SERIAL MODE DATA
DDSTART ; START PULSE OF SERIAL COMMUNICATION
DPARI ; PARITY OF DIGITAL INPUT DATA
DRSY ; DIGITAL DELAYED SYNC ($\overline{8fsc}$ × 8N)
DSSY ; DIGITAL DELAYED SYNC (8fsc × 8N)
ICADD0–ICADD3 ; IC ADDRESS (0 – 3)
IER0 – IER9 ; NON STANDARD PLL ERROR INPUT (0 – 9)
MDDATA ; SERIAL MODE DATA FROM CPU
OEN ; Y (Y/C) OUTPUT ENABLE
OSEL0 – OSEL3 ; TEST (0 – 3)
OUTCNT ; OUTPUT CONTROL : Y/YC MULTIPLEX
TEST0 – TEST4 ; TEST (0 – 4)
TMOD ; TEST MODE
TST11 ; TEST11
TST14 – TST28 ; TEST (14 – 28)

OUTPUT
ADCK ; NON STANDARD PLL ERROR SAMPLING CK
ANA ; ANALOG/DIGITAL
CK2FSC ; INTERNAL 2fsc CK
CK4FSC ; INTERNAL 4fsc CK
CO0 – CO9 ; CHROMA OUT (0 – 9)
CPWM ; CLAMP ERROR PWM
ERPWM ; NON STANDARD PLL ERROR SAMPLING PWM
ERW ; NON STANDARD PLL ERROR WIDTH
FSC ; INTERNAL fsc CK
GD0 – GD7 ; GAIN DATA (0 – 7)
GH ; GATED H
MA ; MANUAL/AUTO (AGC MODE)
OCF ; CF INFORMATION
OER2 – OER9 ; NON STANDARD PLL ERROR OUTPUT (2 – 9)
OHD ; HD
OPARI ; PARITY OF OUTPUT DATA
OVD ; VD
OWCK ; PSEUDO 13.5 MHz/27 MHz
PAL ; PAL/NTSC
PLL2 ; DIGITAL PLL FOR 2fsc CK
PPWM ; SAMPLING CK PLL ERROR PWM
SASY ; ANALOG SYNC
SDSY ; DIGITAL SYNC
SFTP ; DIRECTION FOR SCH 0°
STDATA ; SERIAL OUTPUT DATA TO CPU
XSITE ; COMPONENT/COMPOSITE
YCO0 – YCO9 ; Y (Y/C) OUTPUT (0 – 9)


43-49,51-53,42
DCV0-DCV9,DPARI
11
29,31-39,28
ACV0 ACV9, APARI
11
65-61,58-54
IER0-IER9
10
OUTCNT 102
DCSY 14
A SYNC 13
AGH 8
MDDATA 138
DDSCK 141
Y/C SEPARATOR
Y
C
DECODE
DIGITAL FILTER
RATE CONVER-TOR
Y D2->D1
MULTIPLEX
YC-DATA
Y-DATA
BURST PHASE DETECT
TIMING GEN.
4FSC
CF DETECT
DIGITAL SYNC SEP.
WCK
HVF GEN.
PARITY GEN.
ANALOG CLAMP ERROR, H. SEP.
MODE CONTROL
MODE CONT.
114-111,109-104
10
YCO0-YCO9
92,91,89-82
10
CO0-CO9
119
OWCK
69
ERPWM
16
PPWM
21,19,18
3
4FSC,2FSC,FSC
118
OPARI
117
OCF
115,116
2
OHD,OVD
9
GH
6
CPWM
147
STDATA
CK 151
CL 123
COEN 93
OEN 103
DRSY 23
DCF0-2 25-27
ICADD0-3 146-143
DDSTART 142
TST11,14-18 15,22,66 67,94,122
TST19-TST28 124-129 131-134
DSSY 24
TEST0-TEST4 99-95
TMOD 101
OSEL0-OSEL3 135-137
148 SFTP
149 XSITE
17 PLL2
72-79 OER2-OER9
68 ADCK
71 ERW
2,159-153 GD0-GD7
11 SDSY
12 SASY
5 ANA
4 PAL
3 MA

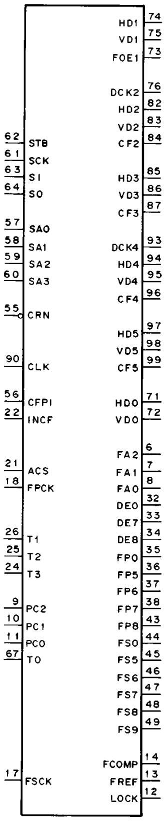
CXD8821Q (SONY)

C-MOS AUDIO TIMING GENERATOR
– TOP VIEW –


GND
VDD (+5V)
NC
VDD (+5V)
NC
NC
NC
VDD (+5V)
GND
VDD (+5V)
NC
VDD (+5V)
GND
NC
GND
GND
VDD (+5V)
NC
GND
VDD (+5V)
NC
GND
VDD (+5V)
GND
NC
NC
VDD (+5V)
GND
NC
NC
NC
VDD (+5V)
NC
VDD (+5V)
GND

(VDD = + 5 V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGANL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	–	GND	26	I	T1	51	–	GND	76	O	DCK2
2	–	V_{DD}	27	–	V_{DD}	52	–	V_{DD}	77	–	V_{DD}
3	–	NC	28	–	NC	53	–	NC	78	–	NC
4	–	V_{DD}	29	–	V_{DD}	54	–	V_{DD}	79	–	V_{DD}
5	–	NC	30	–	GND	55	I	CRN	80	–	GND
6	O	FA2	31	–	GND	56	I	CFPI	81	–	GND
7	O	FA1	32	O	DE0	57	I	SA0	82	O	HD2
8	O	FA0	33	O	DE7	58	I	SA1	83	O	VD2
9	O	PC2	34	O	DE8	59	I	SA2	84	O	CF2
10	O	PC1	35	O	FP0	60	I	SA3	85	O	HD3
11	O	PC0	36	O	FP5	61	I	SCK	86	O	VD3
12	O	LOCK	37	O	FP6	62	I	STB	87	O	CF3
13	O	FREF	38	O	FP7	63	I	SI	88	–	NC
14	O	FCOMP	39	–	NC	64	O	SO	89	–	GND
15	–	V_{DD}	40	–	V_{DD}	65	–	GND	90	I	CLK
16	–	GND	41	–	GND	66	–	V_{DD}	91	–	GND
17	I	FSCK	42	–	NC	67	O	TO	92	–	V_{DD}
18	I	FPCK	43	O	FP8	68	–	NC	93	O	DCK4
19	–	NC	44	O	FS0	69	–	NC	94	O	HD4
20	–	NC	45	O	FS5	70	–	NC	95	O	VD4
21	I	ACS	46	O	FS6	71	O	HD0	96	O	CF4
22	I	INCF	47	O	FS7	72	O	VD0	97	O	HD5
23	–	NC	48	O	FS8	73	O	FOE1	98	O	VD5
24	I	T3	49	O	FS9	74	O	HD1	99	O	CF5
25	I	T2	50	–	GND	75	O	VD1	100	–	GND

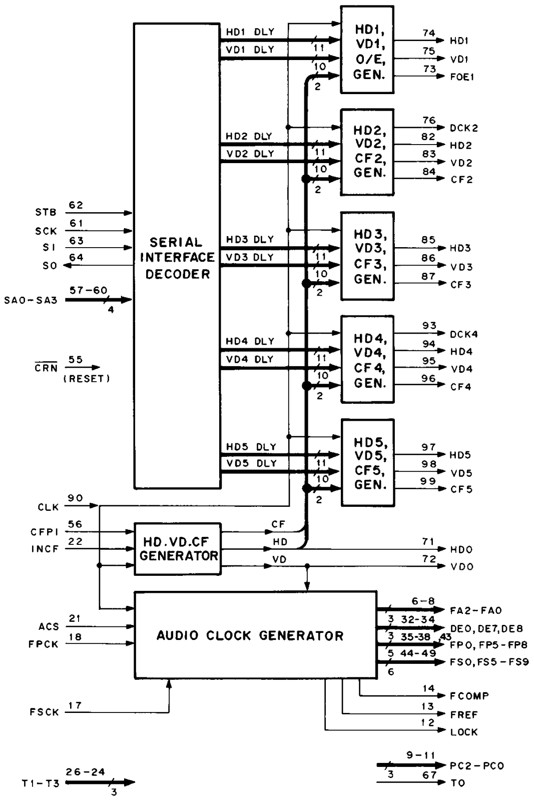

62 STB
61 SCK
63 SI
64 SO
57 SA0
58 SA1
59 SA2
60 SA3
55 CRN
90 CLK
56 CFPI
22 INCF
21 ACS
18 FPCK
26 T1
25 T2
24 T3
9 PC2
10 PC1
11 PC0
67 TO
17 FSCK
HD1 74
VD1 75
FOE1 73
DCK2 76
HD2 82
VD2 83
CF2 84
HD3 85
VD3 86
CF3 87
DCK4 93
HD4 94
VD4 95
CF4 96
HD5 97
VD5 98
CF5 99
HD0 71
VD0 72
FA2 6
FA1 7
FA0 8
DE0 32
DE7 33
DE8 34
FP0 35
FP5 36
FP6 37
FP7 38
FP8 43
FS0 44
FS5 45
FS6 46
FS7 47
FS8 48
FS9 49
FCOMP 14
FREF 13
LOCK 12

INPUT

ACS ; H : 48 kHz AUDIO L : 44.1 kHz AUDIO
CFPI ; INPUT CF PULSE
CLK ; CLOCK
CRN ; POWER ON RESET
FPCK ; AUDIO CLOCK (256FS) FOR PROGRAM PLAY
FSCK ; AUDIO CLOCK (512FS)
INCF ; CF SIGNAL FOR VD2 REFORMING
SA0 – 3 ; SERIAL PRESET ADDRESS
SCK ; SERIAL CLOCK
SI ; SERIAL INPUT DATA
STB ; SERIAL START PULSE
T1 – T3 ; TEST PIN FOR IC

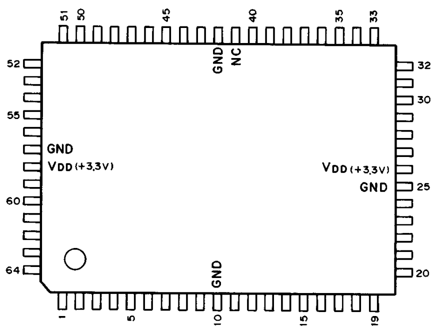
OUTPUT

CF2 ; CF INFORMATION PULSE OF THE # 2 GROUP (PROGRAMABLE)
CF3 ; CF INFORMATION PULSE OF THE # 3 GROUP (PROGRAMABLE)
CF4 ; CF INFORMATION PULSE OF THE # 4 GROUP (PROGRAMABLE)
CF5 ; CF INFORMATION PULSE OF THE # 5 GROUP (PROGRAMABLE)
DCK2 ; 13.5 MHz CLOCK OF THE # 2 GROUP (PROGRAMABLE)
DCK4 ; 13.5 MHz CLOCK OF THE # 4 GROUP (PROGRAMABLE)
DE0 – 8 ; AUDIO CLOCK FOR PITCH CONTROL
FA0 – 2 ; AUDIO 5-FIELD SEQ. ID
FCOMP ; AUDIO CLOCK FOR PLL
FOE1 ; ODD/EVEN SIGNAL OF THE # 1 GROUP (PROGRAMABLE)
FP0 – 8 ; AUDIO CLOCK FOR PROGRAM PLAY
FREF ; REFERENCE CLOCK FOR AUDIO PLL
FS0 – 9 ; AUDIO CLOCK (FS9 : 512FS)
HD0 ; HD PULSE (UNPROGRAMABLE)
HD1 ; HD PULSE OF THE # 1 GROUP (PROGRAMABLE)
HD2 ; HD PULSE OF THE # 2 GROUP (PROGRAMABLE)
HD3 ; HD PULSE OF THE # 3 GROUP (PROGRAMABLE)
HD4 ; HD PULSE OF THE # 4 GROUP (PROGRAMABLE)
HD5 ; HD PULSE OF THE # 5 GROUP (PROGRAMABLE)
LOCK ; AUDIO PLL LOCK DET
PC0 – 2 ; TEST PIN FOR IC
SO ; SERIAL OUTPUT DATA
TO ; TEST PIN FOR IC
VD0 ; VD PULSE (UNPROGRAMABLE)
VD1 ; VD PULSE OF THE # 1 GROUP (PROGRAMABLE)
VD2 ; VD PULSE OF THE # 2 GROUP (PROGRAMABLE)
VD3 ; VD PULSE OF THE # 3 GROUP (PROGRAMABLE)
VD4 ; VD PULSE OF THE # 4 GROUP (PROGRAMABLE)
VD5 ; VD PULSE OF THE # 5 GROUP (PROGRAMABLE)


SERIAL INTERFACE DECODER
STB 62
SCK 61
SI 63
SO 64
SA0-SA3 57-60 4
CRN 55 (RESET)
HD1 DLY
VD1 DLY
HD1, VD1, O/E, GEN.
74 HD1
75 VD1
73 FOE1
HD2 DLY
VD2 DLY
HD2, VD2, CF2, GEN.
76 DCK2
82 HD2
83 VD2
84 CF2
HD3 DLY
VD3 DLY
HD3, VD3, CF3, GEN.
85 HD3
86 VD3
87 CF3
HD4 DLY
VD4 DLY
HD4, VD4, CF4, GEN.
93 DCK4
94 HD4
95 VD4
96 CF4
HD5 DLY
VD5 DLY
HD5, VD5, CF5, GEN.
97 HD5
98 VD5
99 CF5
11
10
2
CLK 90
CFPI 56
INCF 22
HD.VD.CF GENERATOR
CF
HD
VD
71 HDO
72 VDO
AUDIO CLOCK GENERATOR
ACS 21
FPCK 18
FSCK 17
6-8 FA2-FA0
3 32-34 DEO, DE7, DE8
3 35-38 43 FPO, FP5-FP8
5 44-49 FSO, FS5-FS9
6
14 FCOMP
13 FREF
12 LOCK
9-11 PC2-PCO
3
67 TO
T1-T3 26-24 3

CXD8854Q (SONY)

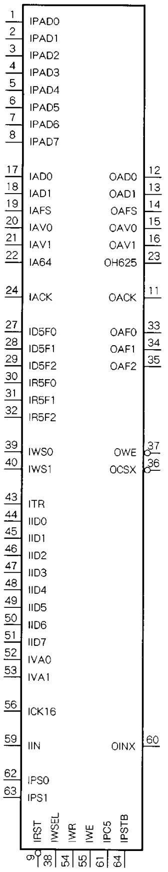
C-MOS AUXILIARY CIRCUIT FOR BIT REDUCTION ENCODER AND ERROR CORRECTION CODER
– TOP VIEW –



51
50
45
40
35
33
52
32
30
55
GND
NC
GND
VDD (+3.3V)
VDD (+3.3V)
GND
60
25
64
20
GND
1
5
10
15
19

(VDD = + 3.3V)

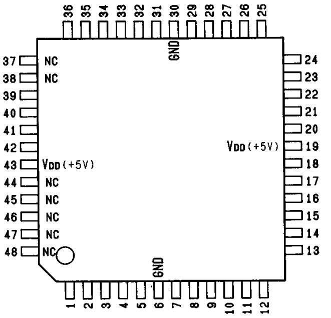
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	IPAD0	17	I	IAD0	33	O	OAF0	49	I	IID5
2	I	IPAD1	18	I	IAD1	34	O	OAF1	50	I	IID6
3	I	IPAD2	19	I	IAFS	35	O	OAF2	51	I	IID7
4	I	IPAD3	20	I	IAV0	36	O	$\overline{\text{OCSX}}$	52	I	IVA0
5	I	IPAD4	21	I	IAV1	37	O	$\overline{\text{OWE}}$	53	I	IVA1
6	I	IPAD5	22	I	IA64	38	I	IWSEL	54	I	IWR
7	I	IPAD6	23	O	OH625	39	I	IWS0	55	I	IWE
8	I	IPAD7	24	I	IACK	40	I	IWS1	56	I	ICK16
9	I	$\overline{\text{IRST}}$	25	–	GND	41	–	NC	57	–	GND
10	–	GND	26	–	VDD	42	–	GND	58	–	VDD
11	O	OACK	27	I	ID5F0	43	I	ITR	59	I	IIN
12	O	OAD0	28	I	ID5F1	44	I	IID0	60	O	OINX
13	O	OAD1	29	I	ID5F2	45	I	IID1	61	I	IPC5
14	O	OAFS	30	I	IR5F0	46	I	IID2	62	I	IPS0
15	O	OAV0	31	I	IR5F1	47	I	IID3	63	I	IPS1
16	O	OAV1	32	I	IR5F2	48	I	IID4	64	I	IPSTB



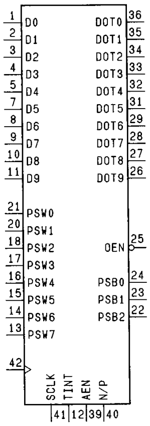
1 IPAD0
2 IPAD1
3 IPAD2
4 IPAD3
5 IPAD4
6 IPAD5
7 IPAD6
8 IPAD7
17 IAD0
18 IAD1
19 IAFS
20 IAV0
21 IAV1
22 IA64
24 IACK
27 ID5F0
28 ID5F1
29 ID5F2
30 IR5F0
31 IR5F1
32 IR5F2
39 IWS0
40 IWS1
43 ITR
44 IID0
45 IID1
46 IID2
47 IID3
48 IID4
49 IID5
50 IID6
51 IID7
52 IVA0
53 IVA1
56 ICK16
59 IIN
62 IPS0
63 IPS1
OAD0 12
OAD1 13
OAFS 14
OAV0 15
OAV1 16
OH625 23
OACK 11
OAF0 33
OAF1 34
OAF2 35
OWE 37
OCSX 36
OINX 60
IRST 9
IWSEL 38
IWR 54
IWE 55
IPC5 61
IPSTB 64

CXK1203AR (SONY) FLAT PACKAGE

C-MOS DIGITAL LINE MEMORY
– TOP VIEW –



36 35 34 33 32 31 30 29 28 27 26 25
GND
37 NC
38 NC
39
40
41
42
43 VDD (+5V)
44 NC
45 NC
46 NC
47 NC
48 NC
VDD (+5V) 19
24
23
22
21
20
18
17
16
15
14
13
GND
1 2 3 4 5 6 7 8 9 10 11 12

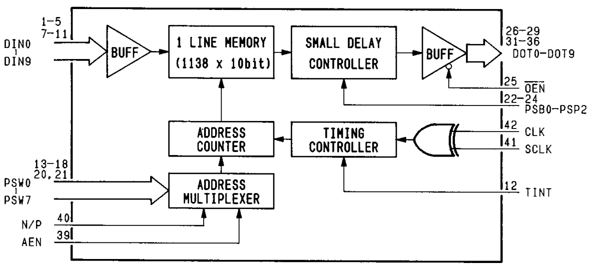


1 D0
2 D1
3 D2
4 D3
5 D4
7 D5
8 D6
9 D7
10 D8
11 D9
21 PSW0
20 PSW1
18 PSW2
17 PSW3
16 PSW4
15 PSW5
14 PSW6
13 PSW7
42
DOT0 36
DOT1 35
DOT2 34
DOT3 33
DOT4 32
DOT5 31
DOT6 29
DOT7 28
DOT8 27
DOT9 26
OEN 25
PSB0 24
PSB1 23
PSB2 22
SCLK 41
TINT 12
AEN 39
N/P 40

(VDD = + 5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGANL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	D0	13	I	PSW7	25	I	$\overline{\text{OEN}}$	37	–	N.C
2	I	D1	14	I	PSW6	26	O	DOT9	38	–	N.C
3	I	D2	15	I	PSW5	27	O	DOT8	39	I	AEN
4	I	D3	16	I	PSW4	28	O	DOT7	40	I	N/P
5	I	D4	17	I	PSW3	29	O	DOT6	41	I	SCLK
6	–	GND	18	I	PSW2	30	–	GND	42	I	CLK
7	I	D5	19	–	VDD	31	O	DOT5	43	–	VDD
8	I	D6	20	I	PSW1	32	O	DOT4	44	–	N.C
9	I	D7	21	I	PSW0	33	O	DOT3	45	–	N.C
10	I	D8	22	I	PSB2	34	O	DOT2	46	–	N.C
11	I	D9	23	I	PSB1	35	O	DOT1	47	–	N.C
12	I	TINT	24	I	PSB0	36	O	DOT0	48	–	N.C

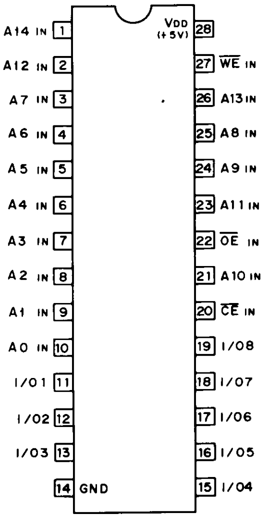
AEN :LINE MEMORY SELECT
CLK :CLOCK
DIN0-DIN9 :VIDEO DATA INPUT
DOT0-DOT9 :VIDEO DATA OUTPUT
N/P :NTSC/PAL/SECAM SELECT
OEN :OUTPUT ENABLE
PSB0-PSB2 :DELAY STEP SELECT(1 BITxN)
PSW0-PSW7 :DELAY STEP SELECT(8 BITxN)
SCLK :CLOCK EDGE SELECT
TINT :TEST

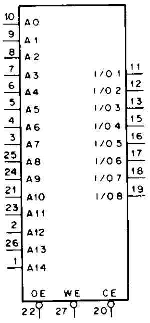


DIN0
DIN9
1-5
7-11
BUFF
1 LINE MEMORY (1138 x 10bit)
SMALL DELAY CONTROLLER
BUFF
26-29
31-36
DOT0-DOT9
25 OEN
22-24 PSB0-PSP2
ADDRESS COUNTER
TIMING CONTROLLER
42 CLK
41 SCLK
PSW0
PSW7
13-18
20, 21
ADDRESS MULTIPLEXER
12 TINT
N/P 40
AEN 39

CXK58257AM-10L (SONY) FLAT PACKAGE

C-MOS 32768-WORD × 8-BIT STATIC RAM
– TOP VIEW –

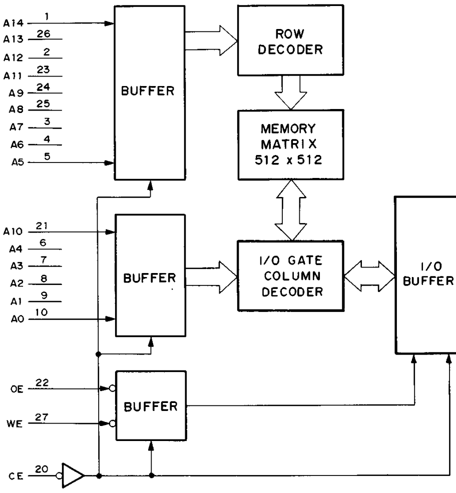

A14 IN 1
A12 IN 2
A7 IN 3
A6 IN 4
A5 IN 5
A4 IN 6
A3 IN 7
A2 IN 8
A1 IN 9
A0 IN 10
I/O1 11
I/O2 12
I/O3 13
14 GND
VDD (+5V) 28
27 WE IN
26 A13 IN
25 A8 IN
24 A9 IN
23 A11 IN
22 OE IN
21 A10 IN
20 CE IN
19 I/O8
18 I/O7
17 I/O6
16 I/O5
15 I/O4


10 A0
9 A1
8 A2
7 A3
6 A4
5 A5
4 A6
3 A7
25 A8
24 A9
21 A10
23 A11
2 A12
26 A13
1 A14
I/O1 11
I/O2 12
I/O3 13
I/O4 15
I/O5 16
I/O6 17
I/O7 18
I/O8 19
OE 22
WE 27
CE 20

A0 – A14	; ADDRESS INPUTS
CE	; CHIP ENABLE INPUT
I/O1 – I/O8	; DATA INPUTS/OUTPUTS
OE	; OUTPUT ENABLE INPUT
WE	; WRITE ENABLE INPUT

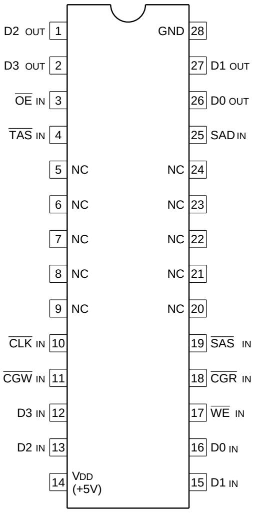
CE	OE	WE	MODE	I/O TERMINAL
1	X	X	NOT SELECT	HIGH IMPEDANCE
0	1	1	OUTPUT DISABLE	HIGH IMPEDANCE
0	0	1	READ	OUTPUT DATA
0	X	0	WRITE	INPUT DATA

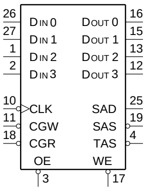
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE


A14 1
A13 26
A12 2
A11 23
A9 24
A8 25
A7 3
A6 4
A5 5
BUFFER
ROW DECODER
MEMORY MATRIX 512 x 512
A10 21
A4 6
A3 7
A2 8
A1 9
A0 10
BUFFER
I/O GATE COLUMN DECODER
I/O BUFFER
19 I/O8
18 I/O7
17 I/O6
16 I/O5
15 I/O4
13 I/O3
12 I/O2
11 I/O1
OE 22
WE 27
BUFFER
CE 20

HM53051FP-60 (HITACHI)

C-MOS 1M (262,144WORD × 4) -BIT FRAME MEMORY
– TOP VIEW –


D2 OUT 1
D3 OUT 2
OE IN 3
TAS IN 4
5 NC
6 NC
7 NC
8 NC
9 NC
CLK IN 10
CGW IN 11
D3 IN 12
D2 IN 13
14 VDD (+5V)
GND 28
27 D1 OUT
26 D0 OUT
25 SAD IN
NC 24
NC 23
NC 22
NC 21
NC 20
19 SAS IN
18 CGR IN
17 WE IN
16 D0 IN
15 D1 IN


26 DIN0
27 DIN1
1 DIN2
2 DIN3
DOUT0 16
DOUT1 15
DOUT2 13
DOUT3 12
10 CLK
11 CGW
18 CGR
SAD 25
SAS 19
TAS 4
OE 3
WE 17

INPUT

$\overline{\text{CGR}}$	; READ CLOCK GATE
$\overline{\text{CGW}}$	; WRITE CLOCK GATE
$\overline{\text{CLK}}$	; SYSTEM CLOCK
D0-3 IN	; DATA INPUTS
$\overline{\text{OE}}$	; OUTPUT ENABLE
SAD	; SERIAL ADDRESS
$\overline{\text{SAS}}$	; SERIAL ADDRESS STROBE
$\overline{\text{TAS}}$	; TRANSFER ADDRESS STROBE
$\overline{\text{WE}}$	; WRITE ENABLE

OUTPUT

D0-3 OUT	; DATA OUTPUTS

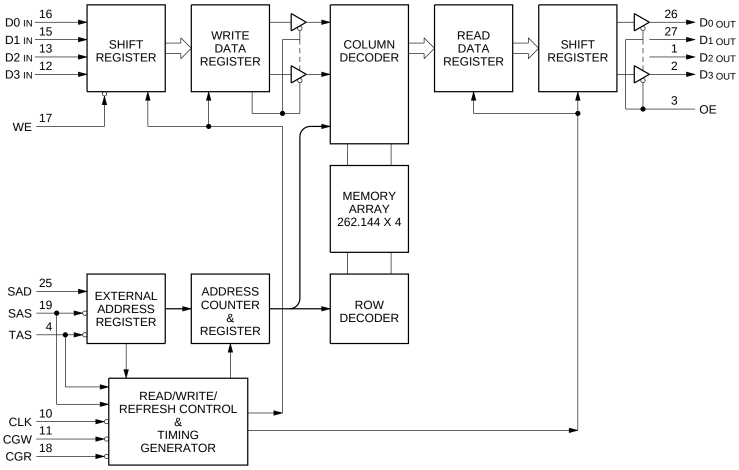
The System mode Is selected by LSB-blts OF SAD. ($\overline{\text{MF}}$, $\overline{\text{WF}}$, $\overline{\text{RF}}$, AWO, ARO)

$\overline{\text{MF}}$	$\overline{\text{WF}}$	$\overline{\text{RF}}$	AWO	ARO	MODE
0	0	0	X	X	READ/WRITE ADDRESS TRANSFER ASYNCHRONOUS
0	0	1	X	X	WRITE ADDRESS TRANSFER ASYNCHRONOUS
0	1	0	X	X	READ ADDRESS TRANSFER ASYNCHRONOUS
0	1	1	X	X	————
1	0	0	X	X	READ/WRITE ADDRESS TRANSFER SYNCHRONOUS
1	0	1	X	X	WRITE ADDRESS TRANSFER SYNCHRONOUS
1	1	0	X	X	READ ADDRESS TRANSFER SYNCHRONOUS
1	1	1	1	1	SYSTEM RESET
1	1	1	0	0	PROHIBITION
1	1	1	0	1	
1	1	1	1	0	

MF ; MODE FLAG
WF ; WRITE FLAG
RF ; READ FLAG

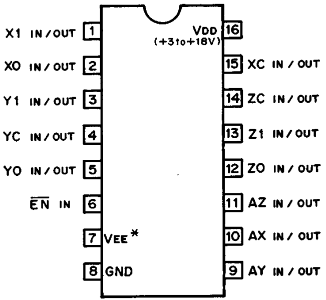
AW(0-12) ; WRITE ADDRESS
AR(0-12) ; READ ADDRESS

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

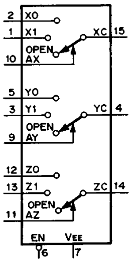

D0 IN 16
D1 IN 15
D2 IN 13
D3 IN 12
WE 17
SHIFT REGISTER
WRITE DATA REGISTER
COLUMN DECODER
READ DATA REGISTER
SHIFT REGISTER
26 D0 OUT
27 D1 OUT
1 D2 OUT
2 D3 OUT
3 OE
MEMORY ARRAY 262.144 X 4
SAD 25
SAS 19
TAS 4
EXTERNAL ADDRESS REGISTER
ADDRESS COUNTER & REGISTER
ROW DECODER
CLK 10
CGW 11
CGR 18
READ/WRITE/ REFRESH CONTROL & TIMING GENERATOR

HD14053BFP (HITACHI) FLAT PACKAGE
TC4053BFS (TOSHIBA) FLAT PACKAGE

C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXERS/DEMULTIPLEXERS
– TOP VIEW –


X1 IN/OUT 1
X0 IN/OUT 2
Y1 IN/OUT 3
YC IN/OUT 4
Y0 IN/OUT 5
EN IN 6
7 VEE*
8 GND
VDD (+3to+18V) 16
15 XC IN/OUT
14 ZC IN/OUT
13 Z1 IN/OUT
12 Z0 IN/OUT
11 AZ IN/OUT
10 AX IN/OUT
9 AY IN/OUT

VEE* ; VDD – VEE = +3 to+18V

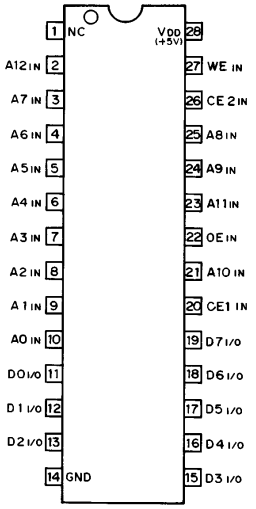

2 X0
1 X1
OPEN
10 AX
XC 15
5 Y0
3 Y1
OPEN
9 AY
YC 4
12 Z0
13 Z1
OPEN
11 AZ
ZC 14
EN 6
VEE 7

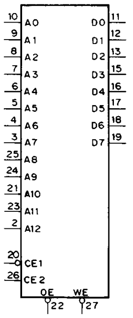
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE.

CONT. INPUTS		ON CHANNEL
EN	A (X,Y,Z,)	
0	0	0
0	1	1
1	X	OPEN

HM6264ALFP-12 (HITACHI) FLAT PACKAGE

C-MOS 64K (8192 × 8) -BIT STATIC RAM
– TOP VIEW –


1 NC
VDD (+5V) 28
A12 IN 2
A7 IN 3
A6 IN 4
A5 IN 5
A4 IN 6
A3 IN 7
A2 IN 8
A1 IN 9
A0 IN 10
D0 I/O 11
D1 I/O 12
D2 I/O 13
14 GND
27 WE IN
26 CE 2 IN
25 A8 IN
24 A9 IN
23 A11 IN
22 OE IN
21 A10 IN
20 CE1 IN
19 D7 I/O
18 D6 I/O
17 D5 I/O
16 D4 I/O
15 D3 I/O

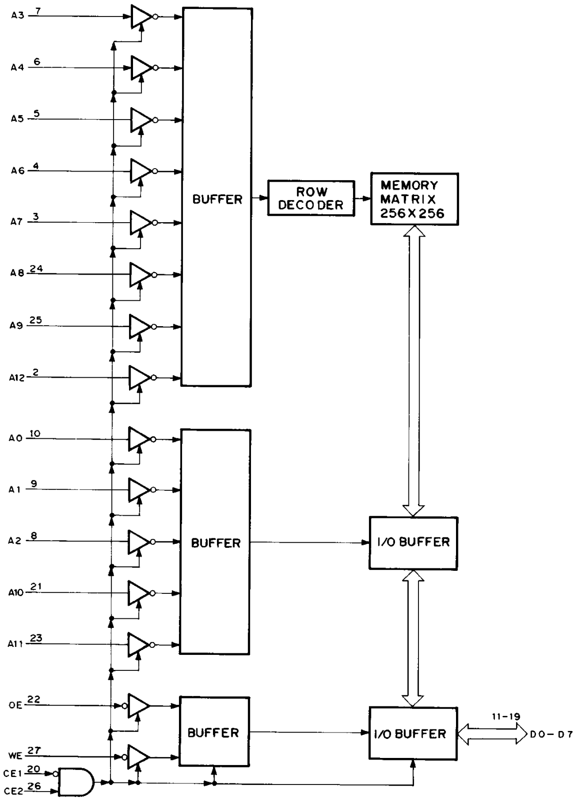

10 A0
9 A1
8 A2
7 A3
6 A4
5 A5
4 A6
3 A7
25 A8
24 A9
21 A10
23 A11
2 A12
20 CE1
26 CE2
D0 11
D1 12
D2 13
D3 15
D4 16
D5 17
D6 18
D7 19
OE 22
WE 27

A0–A12 ; ADDRESS INPUTS
CE1,CE2 ; CHIP ENABLE 1,2 INPUTS
D0–D7 ; DATA INPUTS/OUTPUTS
OE ; OUTPUT ENABLE INPUT
WE ; WRITE ENABLE INPUT

MODE SELECTION

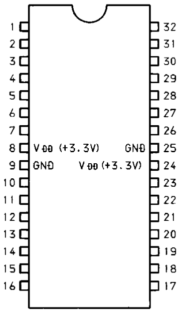
CONTROL INPUTS				MODE
CE1	CE2	OE	WE	
1	X	X	X	NO CHANGE
X	0	X	X	NO CHANGE
0	1	1	1	DISABLE OUTPUT
0	1	0	1	READ
0	1	X	0	WRITE

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE


A3 7
A4 6
A5 5
A6 4
A7 3
A8 24
A9 25
A12 2
A0 10
A1 9
A2 8
A10 21
A11 23
OE 22
WE 27
CE1 20
CE2 26
BUFFER
ROW DECODER
MEMORY MATRIX 256X256
BUFFER
I/O BUFFER
BUFFER
I/O BUFFER
11–19
D0 – D7

HM62W8127HJP-27 (HITACHI) PLCC
HM62W8127HJP-35 (HITACHI) PLCC

C-MOS 1M (131k × 8) -BIT STATIC RAM
– TOP VIEW –


1
2
3
4
5
6
7
8 VDD (+3.3V)
9 GND
10
11
12
13
14
15
16
32
31
30
29
28
27
26
GND 25
VDD (+3.3V) 24
23
22
21
20
19
18
17

(VDD = +3.3V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	A3	17	I	A12
2	I	A2	18	I	A11
3	I	A1	19	I	A10
4	I	A0	20	I	A9
5	I	$\overline{CS}$	21	I	A8
6	I/O	I/O1	22	I/O	I/O5
7	I/O	I/O2	23	I/O	I/O6
8	–	VDD	24	–	VDD
9	–	GND	25	–	GND
10	I/O	I/O3	26	I/O	I/O7
11	I/O	I/O4	27	I/O	I/O8
12	I	$\overline{WE}$	28	I	$\overline{OE}$
13	I	A16	29	I	A7
14	I	A15	30	I	A6
15	I	A14	31	I	A5
16	I	A13	32	I	A4

INPUT

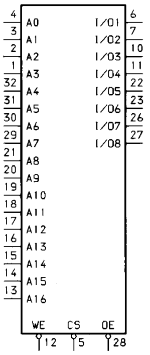
A0–A16 ;ADDRESS INPUTS
$\overline{CS}$;CHIP SELECT
$\overline{OE}$;OUTPUT ENABLE INPUT
$\overline{WE}$;WRITE ENABLE INPUT

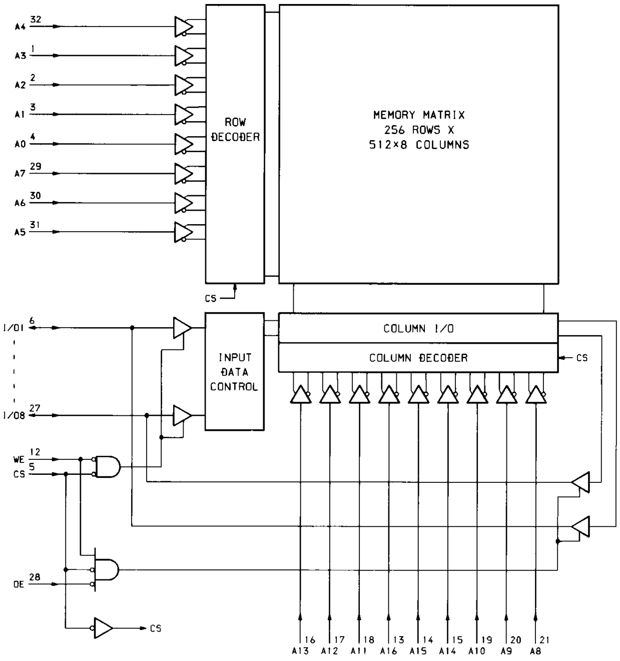
INPUT/OUTPUT

I/O1–I/O8 ;DATA INPUTS/OUTPUTS

$\overline{CS}$	$\overline{OE}$	$\overline{WE}$	MODE	I/O
1	X	X	NON SELECT	HI-Z
0	1	1	OUTPUT DISABLE	HI-Z
0	0	1	READ	OUTPUT
0	X	0	WRITE	INPUT

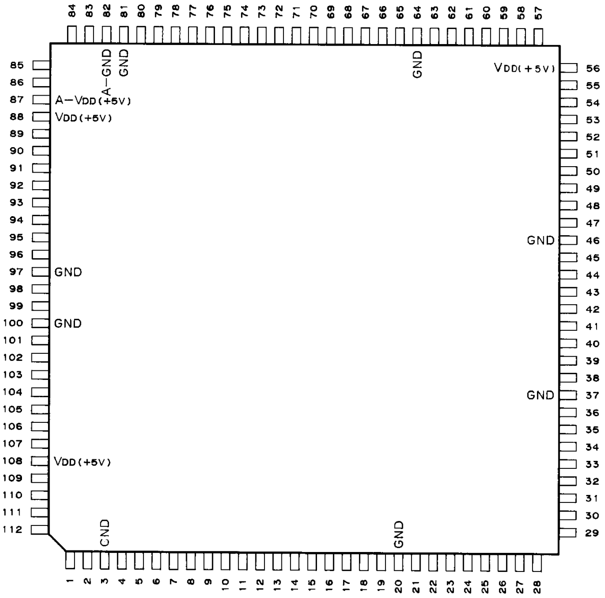
0 ;LOW LEVEL
1 ;HIGH LEVEL
X ;DON'T CARE
HI-Z ;HIGH IMPEDANCE


4 A0
3 A1
2 A2
1 A3
32 A4
31 A5
30 A6
29 A7
21 A8
20 A9
19 A10
18 A11
17 A12
16 A13
15 A14
14 A15
13 A16
I/O1 6
I/O2 7
I/O3 10
I/O4 11
I/O5 22
I/O6 23
I/O7 26
I/O8 27
WE 12
CS 5
OE 28


A4 32
A3 1
A2 2
A1 3
A0 4
A7 29
A6 30
A5 31
ROW DECODER
MEMORY MATRIX 256 ROWS X 512×8 COLUMNS
CS
I/O1 6
I/O8 27
INPUT DATA CONTROL
COLUMN I/O
COLUMN DECODER
CS
WE 12
CS 5
OE 28
CS
16 A13
17 A12
18 A11
13 A16
14 A15
15 A14
19 A10
20 A9
21 A8

HD6415108RF10 (HITACHI)

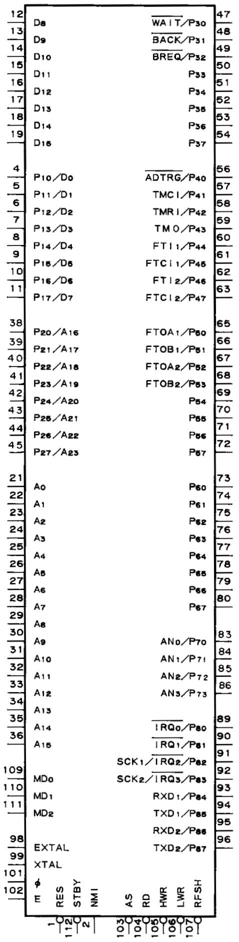
C-MOS 16-BIT MICROCOMPUTER UNIT
– TOP VIEW –



PIN No.	EXPANSION MINIMUM MODE				EXPANSION MAXIMUM MODE			
	MODE 1		MODE 2		MODE 3		MODE 4	
	I/O	SIGNAL	I/O	SIGNAL	I/O	SIGNAL	I/O	SIGNAL
1	I/O	$\overline{\text{RES}}$	I/O	$\overline{\text{RES}}$	I/O	$\overline{\text{RES}}$	I/O	$\overline{\text{RES}}$
2	I	NMI	I	NMI	I	NMI	I	NMI
3	–	GND	–	GND	–	GND	–	GND
4	I/O	P10	I/O	D0	I/O	P10	I/O	D0
5	I/O	P11	I/O	D1	I/O	P11	I/O	D1
6	I/O	P12	I/O	D2	I/O	P12	I/O	D2
7	I/O	P13	I/O	D3	I/O	P13	I/O	D3
8	I/O	P14	I/O	D4	I/O	P14	I/O	D4
9	I/O	P15	I/O	D5	I/O	P15	I/O	D5
10	I/O	P16	I/O	D6	I/O	P16	I/O	D6
11	I/O	P17	I/O	D7	I/O	P17	I/O	D7
12	I/O	D8	I/O	D8	I/O	D8	I/O	D8
13	I/O	D9	I/O	D9	I/O	D9	I/O	D9
14	I/O	D10	I/O	D10	I/O	D10	I/O	D10
15	I/O	D11	I/O	D11	I/O	D11	I/O	D11
16	I/O	D12	I/O	D12	I/O	D12	I/O	D12
17	I/O	D13	I/O	D13	I/O	D13	I/O	D13
18	I/O	D14	I/O	D14	I/O	D14	I/O	D14
19	I/O	D15	I/O	D15	I/O	D15	I/O	D15
20	–	GND	–	GND	–	GND	–	GND
21	O	A0	O	A0	O	A0	O	A0
22	O	A1	O	A1	O	A1	O	A1
23	O	A2	O	A2	O	A2	O	A2
24	O	A3	O	A3	O	A3	O	A3
25	O	A4	O	A4	O	A4	O	A4
26	O	A5	O	A5	O	A5	O	A5
27	O	A6	O	A6	O	A6	O	A6
28	O	A7	O	A7	O	A7	O	A7
29	O	A8	O	A8	O	A8	O	A8
30	O	A9	O	A9	O	A9	O	A9
31	O	A10	O	A10	O	A10	O	A10
32	O	A11	O	A11	O	A11	O	A11
33	O	A12	O	A12	O	A12	O	A12
34	O	A13	O	A13	O	A13	O	A13
35	O	A14	O	A14	O	A14	O	A14
36	O	A15	O	A15	O	A15	O	A15
37	–	GND	–	GND	–	GND	–	GND
38	I/O	P20	I/O	P20	O	A16	O	A16
39	I/O	P21	I/O	P21	O	A17	O	A17
40	I/O	P22	I/O	P22	O	A18	O	A18

PIN No.	EXPANSION MINIMUM MODE				EXPANSION MAXIMUM MODE			
	MODE 1		MODE 2		MODE 3		MODE 4	
	I/O	SIGNAL	I/O	SIGNAL	I/O	SIGNAL	I/O	SIGNAL
41	I/O	P23	I/O	P23	O	A19	O	A19
42	I/O	P24	I/O	P24	O	A20	O	A20
43	I/O	P25	I/O	P25	O	A21	O	A21
44	I/O	P26	I/O	P26	O	A22	O	A22
45	I/O	P27	I/O	P27	O	A23	O	A23
46	–	GND	–	GND	–	GND	–	GND
47	I/O	P30/$\overline{\text{WAIT}}$	I/O	P30/$\overline{\text{WAIT}}$	I/O	P30/$\overline{\text{WAIT}}$	I/O	P30/$\overline{\text{WAIT}}$
48	I/O	P31/$\overline{\text{BACK}}$	I/O	P31/$\overline{\text{BACK}}$	I/O	P31/$\overline{\text{BACK}}$	I/O	P31/$\overline{\text{BACK}}$
49	I/O	P32/$\overline{\text{BREQ}}$	I/O	P32/$\overline{\text{BREQ}}$	I/O	P32/$\overline{\text{BREQ}}$	I/O	P32/$\overline{\text{BREQ}}$
50	I/O	P33	I/O	P33	I/O	P33	I/O	P33
51	I/O	P34	I/O	P34	I/O	P34	I/O	P34
52	I/O	P35	I/O	P35	I/O	P35	I/O	P35
53	I/O	P36	I/O	P36	I/O	P36	I/O	P36
54	I/O	P37	I/O	P37	I/O	P37	I/O	P37
55	–	V_{DD}	–	V_{DD}	–	V_{DD}	–	V_{DD}
56	I/O	P40/$\overline{\text{ADTRG}}$	I/O	P40/$\overline{\text{ADTRG}}$	I/O	P40/$\overline{\text{ADTRG}}$	I/O	P40/$\overline{\text{ADTRG}}$
57	I/O	P41/TMCI	I/O	P41/TMCI	I/O	P41/TMCI	I/O	P41/TMCI
58	I/O	P42/TMRI	I/O	P42/TMRI	I/O	P42/TMRI	I/O	P42/TMRI
59	I/O	P43/TMO	I/O	P43/TMO	I/O	P43/TMO	I/O	P43/TMO
60	I/O	P44/FTI1	I/O	P44/FTI1	I/O	P44/FTI1	I/O	P44/FTI1
61	I/O	P45/FTCI1	I/O	P45/FTCI1	I/O	P45/FTCI1	I/O	P45/FTCI1
62	I/O	P46/FTI2	I/O	P46/FTI2	I/O	P46/FTI2	I/O	P46/FTI2
63	I/O	P47/FTCI2	I/O	P47/FTCI2	I/O	P47/FTCI2	I/O	P47/FTCI2
64	–	GND	–	GND	–	GND	–	GND
65	I/O	P50/FTOA1	I/O	P50/FTOA1	I/O	P50/FTOA1	I/O	P50/FTOA1
66	I/O	P51/FTOB1	I/O	P51/FTOB1	I/O	P51/FTOB1	I/O	P51/FTOB1
67	I/O	P52/FTOA2	I/O	P52/FTOA2	I/O	P52/FTOA2	I/O	P52/FTOA2
68	I/O	P53/FTOB2	I/O	P53/FTOB2	I/O	P53/FTOB2	I/O	P53/FTOB2
69	I/O	P54	I/O	P54	I/O	P54	I/O	P54
70	I/O	P55	I/O	P55	I/O	P55	I/O	P55
71	I/O	P56	I/O	P56	I/O	P56	I/O	P56
72	I/O	P57	I/O	P57	I/O	P57	I/O	P57
73	I/O	P60	I/O	P60	I/O	P60	I/O	P60
74	I/O	P61	I/O	P61	I/O	P61	I/O	P61
75	I/O	P62	I/O	P62	I/O	P62	I/O	P62
76	I/O	P63	I/O	P63	I/O	P63	I/O	P63
77	I/O	P64	I/O	P64	I/O	P64	I/O	P64
78	I/O	P65	I/O	P65	I/O	P65	I/O	P65
79	I/O	P66	I/O	P66	I/O	P66	I/O	P66
80	I/O	P67	I/O	P67	I/O	P67	I/O	P67

PIN No.	EXPANSION MINIMUM MODE				EXPANSION MAXIMUM MODE			
	MODE 1		MODE 2		MODE 3		MODE 4	
	I/O	SIGNAL	I/O	SIGNAL	I/O	SIGNAL	I/O	SIGNAL
81	–	GND	–	GND	–	GND	–	GND
82	–	A-GND	–	A-GND	–	A-GND	–	A-GND
83	I	P70/AN0	I	P70/AN0	I	P70/AN0	I	P70/AN0
84	I	P71/AN1	I	P71/AN1	I	P71/AN1	I	P71/AN1
85	I	P72/AN2	I	P72/AN2	I	P72/AN2	I	P72/AN2
86	I	P73/AN3	I	P73/AN3	I	P73/AN3	I	P73/AN3
87	–	A-V_{DD}	–	A-V_{DD}	–	A-V_{DD}	–	A-V_{DD}
88	–	V_{DD}	–	V_{DD}	–	V_{DD}	–	V_{DD}
89	I/O	P80/$\overline{\text{IRQ0}}$	I/O	P80/$\overline{\text{IRQ0}}$	I/O	P80/$\overline{\text{IRQ0}}$	I/O	P80/$\overline{\text{IRQ0}}$
90	I/O	P81/$\overline{\text{IRQ1}}$	I/O	P81/$\overline{\text{IRQ1}}$	I/O	P81/$\overline{\text{IRQ1}}$	I/O	P81/$\overline{\text{IRQ1}}$
91	I/O	P82/$\overline{\text{IRQ2}}$/SCK1	I/O	P82/$\overline{\text{IRQ2}}$/SCK1	I/O	P82/$\overline{\text{IRQ2}}$/SCK1	I/O	P82/$\overline{\text{IRQ2}}$/SCK1
92	I/O	P83/$\overline{\text{IRQ3}}$/SCK2	I/O	P83/$\overline{\text{IRQ3}}$/SCK2	I/O	P83/$\overline{\text{IRQ3}}$/SCK2	I/O	P83/$\overline{\text{IRQ3}}$/SCK2
93	I/O	P84/RXD1	I/O	P84/RXD1	I/O	P84/RXD1	I/O	P84/RXD1
94	I/O	P85/TXD1	I/O	P85/TXD1	I/O	P85/TXD1	I/O	P85/TXD1
95	I/O	P86/RXD2	I/O	P86/RXD2	I/O	P86/RXD2	I/O	P86/RXD2
96	I/O	P87/TXD2	I/O	P87/TXD2	I/O	P87/TXD2	I/O	P87/TXD2
97	–	GND	–	GND	–	GND	–	GND
98	I	EXTAL	I	EXTAL	I	EXTAL	I	EXTAL
99	I	XTAL	I	XTAL	I	XTAL	I	XTAL
100	–	GND	–	GND	–	GND	–	GND
101	O	ϕ	O	ϕ	O	ϕ	O	ϕ
102	O	E	O	E	O	E	O	E
103	O	$\overline{\text{AS}}$	O	$\overline{\text{AS}}$	O	$\overline{\text{AS}}$	O	$\overline{\text{AS}}$
104	O	$\overline{\text{RD}}$	O	$\overline{\text{RD}}$	O	$\overline{\text{RD}}$	O	$\overline{\text{RD}}$
105	O	$\overline{\text{HWR}}$	O	$\overline{\text{HWR}}$	O	$\overline{\text{HWR}}$	O	$\overline{\text{HWR}}$
106	O	$\overline{\text{LWR}}$	O	$\overline{\text{LWR}}$	O	$\overline{\text{LWR}}$	O	$\overline{\text{LWR}}$
107	O	$\overline{\text{RFSH}}$	O	$\overline{\text{RFSH}}$	O	$\overline{\text{RFSH}}$	O	$\overline{\text{RFSH}}$
108	–	V_{DD}	–	V_{DD}	–	V_{DD}	–	V_{DD}
109	I	MD0	I	MD0	I	MD0	I	MD0
110	I	MD1	I	MD1	I	MD1	I	MD1
111	I	MD2	I	MD2	I	MD2	I	MD2
112	I	$\overline{\text{STBY}}$	I	$\overline{\text{STBY}}$	I	$\overline{\text{STBY}}$	I	$\overline{\text{STBY}}$


12 D8
13 D9
14 D10
15 D11
16 D12
17 D13
18 D14
19 D15
4 P10/D0
5 P11/D1
6 P12/D2
7 P13/D3
8 P14/D4
9 P15/D5
10 P16/D6
11 P17/D7
38 P20/A16
39 P21/A17
40 P22/A18
41 P23/A19
42 P24/A20
43 P25/A21
44 P26/A22
45 P27/A23
21 A0
22 A1
23 A2
24 A3
25 A4
26 A5
27 A6
28 A7
29 A8
30 A9
31 A10
32 A11
33 A12
34 A13
35 A14
36 A15
109 MD0
110 MD1
111 MD2
98 EXTAL
99 XTAL
101 ϕ
102 E
47 WAIT/P30
48 BACK/P31
49 BREQ/P32
50 P33
51 P34
52 P35
53 P36
54 P37
56 ADTRG/P40
57 TMCI/P41
58 TMRI/P42
59 TMO/P43
60 FTI1/P44
61 FTCI1/P45
62 FTI2/P46
63 FTCI2/P47
65 FTOA1/P50
66 FTOB1/P51
67 FTOA2/P52
68 FTOB2/P53
69 P54
70 P55
71 P56
72 P57
73 P60
74 P61
75 P62
76 P63
77 P64
78 P65
79 P66
80 P67
83 AN0/P70
84 AN1/P71
85 AN2/P72
86 AN3/P73
89 IRQ0/P80
90 IRQ1/P81
91 SCK1/IRQ2/P82
92 SCK2/IRQ3/P83
93 RXD1/P84
94 TXD1/P85
95 RXD2/P86
96 TXD2/P87
1 RES
112 STBY
2 NMI
103 AS
104 RD
105 HWR
106 LWR
107 RFSH

INPUT

$\overline{\text{ADTRG}}$	; EXTERNAL TRIGGER
AN0 – AN3	; ANALOG
$\overline{\text{BREQ}}$	; BUS RIGHT REQUEST
EXTAL	; CRYSTAL OSCILLATOR
FTI1, FTI2	; FREE RUNNING TIMER INPUT CAPTURE (CH1, CH2)
FTCI1, FTCI2	; FREE RUNNING TIMER COUNTER CLOCK (CH1, CH2)
$\overline{\text{IRQ0}}$ – $\overline{\text{IRQ3}}$	; INTERRUPT REQUEST
MD0 – MD2	; MODE SET UP
NMI	; NON-MASKABLE INTERRUPT
P70 – P73	; PORT 7
RXD1, RXD2	; RECEIVE DATA (CH1, CH2)
$\overline{\text{STBY}}$	; STANDBY
TMCI	; 8-BIT TIMER CLOCK
TMRI	; 8-BIT TIMER COUNTER RESET
WAIT	; WAIT
XTAL	; CRYSTAL OSCILLATOR

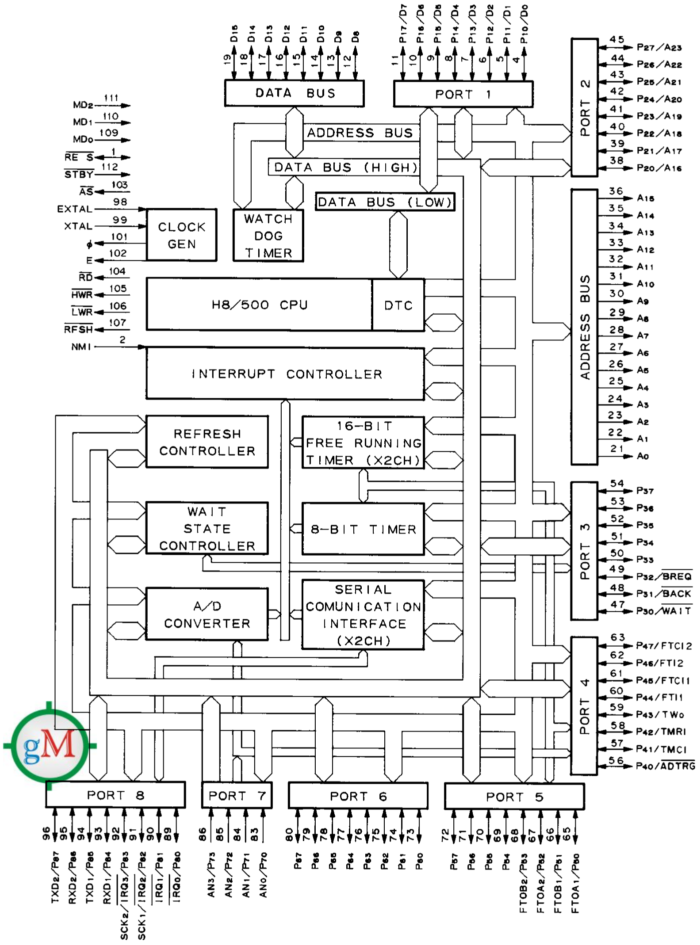
OUTPUT

A0 – A23	; ADDRESS BUS
$\overline{\text{AS}}$	; ADDRESS STROBE
$\overline{\text{BACK}}$	; BUS RIGHT REQUEST ACKNOWLEDGE
E	; ENABLE CLOCK
FTOA1, FTOA2	; FREE RUNNING TIMER OUTPUT COMPARE A (CH1, CH2)
FTOB1, FTOB2	; FREE RUNNING TIMER OUTPUT COMPARE B (CH1, CH2)
$\overline{\text{HWR}}$	; HIGH WRITE
$\overline{\text{LWR}}$	; LOW WRITE
$\overline{\text{RD}}$	; READ
$\overline{\text{RFSH}}$	; REFRESH CYCLE
TMO	; 8-BIT TIMER
TXD1, TXD2	; TRANSMISSION DATA (CH1, CH2)
ϕ	; SYSTEM CLOCK

INPUT/OUTPUT

D0 – D15	; DATA BUS
P10 – P17	; PORT 1
P20 – P27	; PORT 2
P30 – P37	; PORT 3
P40 – P47	; PORT 4
P50 – P57	; PORT 5
P60 – P67	; PORT 6
P80 – P87	; PORT 8
$\overline{\text{RES}}$	; RESET
SCK1, SCK2	; SERIAL CLOCK (CH1, CH2)

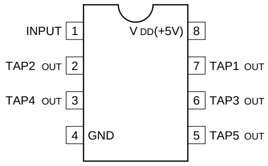
INPUTS			OPERATION MODE	CONTENTS
MD2	MD1	MD0		
0	0	1	MODE 1	EXTENSION MINIMUM MODE (8BIT BUS)
0	1	0	MODE 2	EXTENSION MINIMUM MODE (16BIT BUS)
0	1	1	MODE 3	EXTENSION MAXIMUM MODE (8BIT BUS)
1	0	0	MODE 4	EXTENSION MAXIMUM MODE (16BIT BUS)
1	0	1	MODE 5	SINGLE CHIP MODE
1	1	0	MODE 6	
1	1	1	MODE 7	

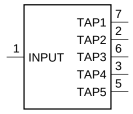

DATA BUS
PORT 1
PORT 2
ADDRESS BUS
DATA BUS (HIGH)
DATA BUS (LOW)
CLOCK GEN
WATCH DOG TIMER
H8/500 CPU
DTC
INTERRUPT CONTROLLER
REFRESH CONTROLLER
16-BIT FREE RUNNING TIMER (X2CH)
WAIT STATE CONTROLLER
8-BIT TIMER
A/D CONVERTER
SERIAL COMUNICATION INTERFACE (X2CH)
ADDRESS BUS
PORT 3
PORT 4
PORT 8
PORT 7
PORT 6
PORT 5
MD2 111
MD1 110
MD0 109
RES 1
STBY 112
AS 103
EXTAL 98
XTAL 99
ϕ 101
E 102
RD 104
HWR 105
LWR 106
RFSH 107
NMI 2
D15 D14 D13 D12 D11 D10 D9 D8
P17/D7 P16/D6 P15/D5 P14/D4 P13/D3 P12/D2 P11/D1 P10/D0
P27/A23 P26/A22 P25/A21 P24/A20 P23/A19 P22/A18 P21/A17 P20/A16
A15 A14 A13 A12 A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 A1 A0
P37 P36 P35 P34 P33 P32/BREQ P31/BACK P30/WAIT
P47/FTCI2 P46/FTI2 P45/FTCI1 P44/FTI1 P43/TMO P42/TMRI P41/TMCI P40/ADTRG
TXD2/P87 RXD2/P86 TXD1/P85 RXD1/P84 SCK2/IRQ3/P83 SCK1/IRQ2/P82 IRQ1/P81 IRQ0/P80
AN3/P73 AN2/P72 AN1/P71 AN0/P70
P67 P66 P65 P64 P63 P62 P61 P60
P57 P56 P55 P54 FTOB2/P53 FTOA2/P52 FTOB1/P51 FTOA1/P50

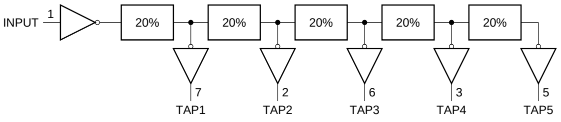
DS1000Z-100 (DALLAS SEMICONDUCTOR) FLAT PACKAGE

C-MOS DELAY LINE

- TOP VIEW -


INPUT 1
TAP2 OUT 2
TAP4 OUT 3
4 GND
V DD(+5V) 8
7 TAP1 OUT
6 TAP3 OUT
5 TAP5 OUT

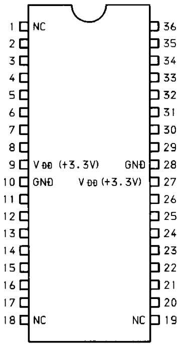

1 INPUT
TAP1 7
TAP2 2
TAP3 6
TAP4 3
TAP5 5


INPUT 1
20%
20%
20%
20%
20%
7 TAP1
2 TAP2
6 TAP3
3 TAP4
5 TAP5

TYPE. NO.	DELAY TIME (ns)				
	TAP1	TAP2	TAP3	TAP4	TAP5
DS1000M-50	10	20	30	40	50
DS1000M-60	12	24	36	48	60
DS1000M-75	15	30	45	60	75
DS1000M-100	20	40	60	80	100
DS1000M-125	25	50	75	100	125
DS1000M-150	30	60	90	120	150
DS1000M-175	35	70	105	140	175
DS1000M-200	40	80	120	160	200
DS1000M-250	50	100	150	200	250
DS1000M-500	100	200	300	400	500
DS1000Z-100	20	40	60	80	100

HM62W9127HJP-35 (HITACHI) PLCC

C-MOS 1M (128k × 9) -BIT STATIC RAM
– TOP VIEW –


NC
V DD (+3.3V)
GND
GND
V DD (+3.3V)
NC
NC

(VDD = +3.3V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	–	NC	19	–	NC
2	I	A3	20	I	A12
3	I	A2	21	I	A11
4	I	A1	22	I	A10
5	I	A0	23	I	A9
6	I	$\overline{\text{CS}}$	24	I	A8
7	I/O	I/O1	25	I/O	I/O5
8	I/O	I/O2	26	I/O	I/O6
9	–	VDD	27	–	VDD
10	–	GND	28	–	GND
11	I/O	I/O3	29	I/O	I/O7
12	I/O	I/O4	30	I/O	I/O8
13	I	$\overline{\text{WE}}$	31	I/O	I/O9
14	I	A16	32	I	$\overline{\text{OE}}$
15	I	A15	33	I	A7
16	I	A14	34	I	A6
17	I	A13	35	I	A5
18	–	NC	36	I	A4

INPUT

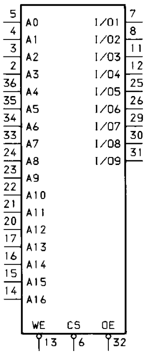
A0-A16	;ADDRESS INPUTS
$\overline{\text{CS}}$	;CHIP SELECT
$\overline{\text{OE}}$	;OUTPUT ENABLE INPUT
$\overline{\text{WE}}$	;WRITE ENABLE INPUT

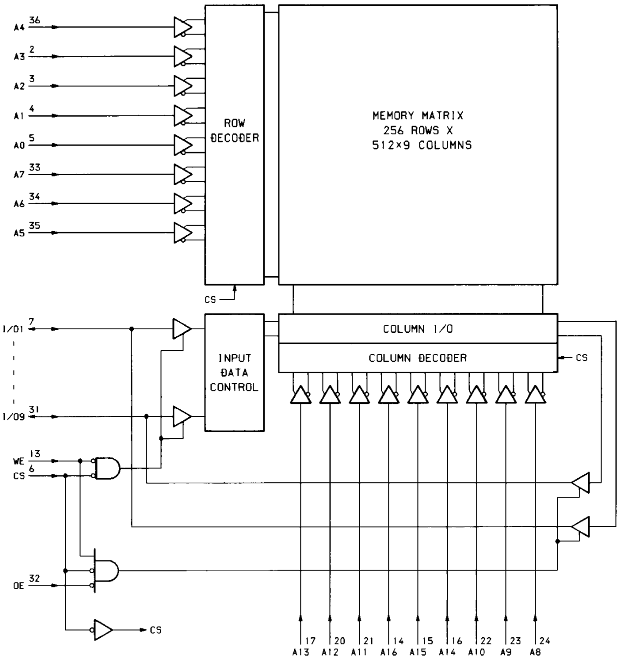
INPUT/OUTPUT

I/O1-I/O9 ;DATA INPUTS/OUTPUTS

$\overline{\text{CS}}$	$\overline{\text{OE}}$	$\overline{\text{WE}}$	MODE	I/O
1	X	X	NON SELECT	HI-Z
0	1	1	OUTPUT DISABLE	HI-Z
0	0	1	READ	OUTPUT
0	X	0	WRITE	INPUT

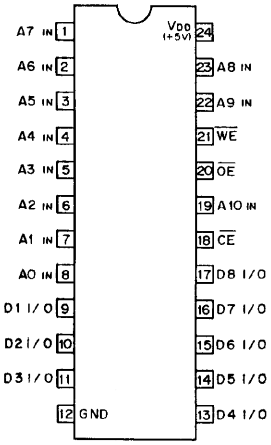
0	;LOW LEVEL
1	;HIGH LEVEL
X	;DON'T CARE
HI-Z	;HIGH IMPEDANCE

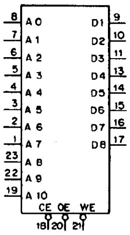

A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
I/O1
I/O2
I/O3
I/O4
I/O5
I/O6
I/O7
I/O8
I/O9
WE
CS
OE


A4
A3
A2
A1
A0
A7
A6
A5
ROW DECODER
MEMORY MATRIX 256 ROWS X 512×9 COLUMNS
CS
I/O1
I/O9
INPUT DATA CONTROL
COLUMN I/O
COLUMN DECODER
CS
WE
CS
OE
CS
A13
A12
A11
A16
A15
A14
A10
A9
A8

IDT6116SA25SO (IDT) FLAT PACKAGE
SRM2016M10 (SEIKO EPSON) FLAT PACKAGE

C-MOS 16K (2048 × 8) -BIT STATIC RAM
– TOP VIEW –


A7 IN
A6 IN
A5 IN
A4 IN
A3 IN
A2 IN
A1 IN
A0 IN
D1 I/O
D2 I/O
D3 I/O
GND
VDD (+5V)
A8 IN
A9 IN
WE
OE
A10 IN
CE
D8 I/O
D7 I/O
D6 I/O
D5 I/O
D4 I/O

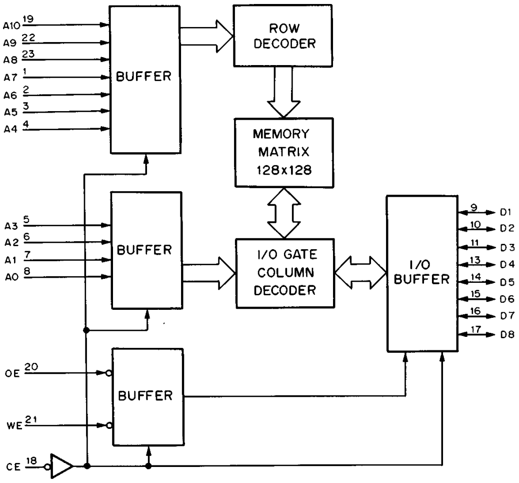

A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
D1
D2
D3
D4
D5
D6
D7
D8
CE
OE
WE

A0 – A10 ; ADDRESS INPUTS
CE ; CHIP ENABLE INPUT
D1 – D8 ; DATA INPUTS/OUTPUTS
OE ; OUTPUT ENABLE INPUT
WE ; WRITE ENABLE INPUT

FUNCTION TABLE

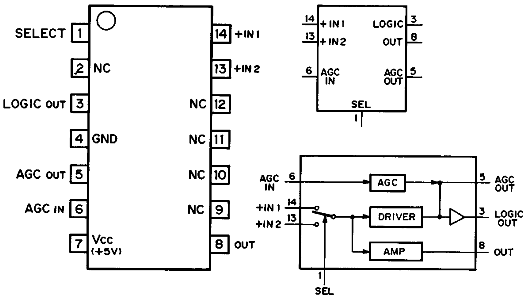
CONTROL INPUTS			MODE	D1 – D8
CE	OE	WE		
1	X	X	STANDBY	HI-Z
0	1	1	DISABLE OUTPUT	HI-Z
0	0	1	FEAD	OUTPUT
0	X	0	WRITE	INPUT

0 : LOW LEVEL
1 : HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE


A10
A9
A8
A7
A6
A5
A4
BUFFER
ROW DECODER
MEMORY MATRIX 128x128
A3
A2
A1
A0
BUFFER
I/O GATE COLUMN DECODER
I/O BUFFER
D1
D2
D3
D4
D5
D6
D7
D8
OE
WE
BUFFER
CE

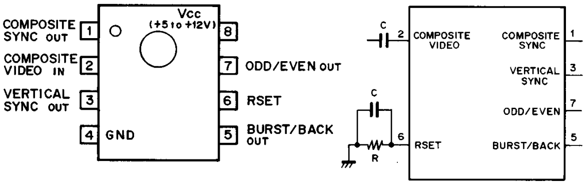
LA7205M (SANYO)

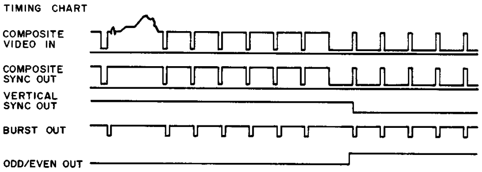
AGC AMP, INPUT SELECT, AGC DET, COMPARATOR
– TOP VIEW –


SELECT 1
2 NC
LOGIC OUT 3
4 GND
AGC OUT 5
AGC IN 6
7 Vcc (+5V)
14 +IN1
13 +IN2
NC 12
NC 11
NC 10
NC 9
8 OUT
14 +IN1
13 +IN2
6 AGC IN
LOGIC OUT 3
8
AGC OUT 5
SEL 1
AGC IN 6
+IN1 14
+IN2 13
AGC
DRIVER
AMP
5 AGC OUT
3 LOGIC OUT
8 OUT
1 SEL

LM1881M (NS) FLAT PACKAGE

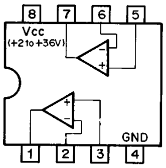
VIDEO SYNC SEPARATOR
– TOP VIEW –


COMPOSITE SYNC OUT 1
COMPOSITE VIDEO IN 2
VERTICAL SYNC OUT 3
4 GND
Vcc (+5 to +12V) 8
7 ODD/EVEN OUT
6 RSET
5 BURST/BACK OUT
C
2 COMPOSITE VIDEO
C
R
6 RSET
COMPOSITE SYNC 1
VERTICAL SYNC 3
ODD/EVEN 7
BURST/BACK 5



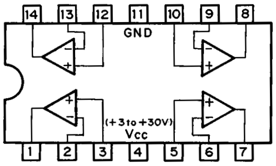
LM2903PS (TI) FLAT PACKAGE
NJM2903M (JRC) FLAT PACKAGE

DUAL VOLTAGE COMPARATORS
– TOP VIEW –


8 7 6 5
Vcc (+2 to +36V)
GND
1 2 3 4

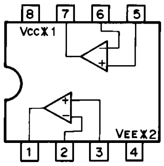
LM324NS (TI) FLAT PACKAGE

QUAD OPERATIOAL AMPLIFIERS
– TOP VIEW –


14 13 12 11 10 9 8
GND
(+3 to +30V) Vcc
1 2 3 4 5 6 7

LM358D (TI) FLAT PACKAGE

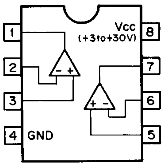
DUAL OPERATIONAL AMPLIFIER
– TOP VIEW –


8 7 6 5
Vcc※1
VEE※2
1 2 3 4

	Vcc*1	VEE*2
SINGLE SUPPLY	+3 to +32V	GND
SPLIT SUPPLIES	+1.5 to +16V	– 1.5 to – 16V

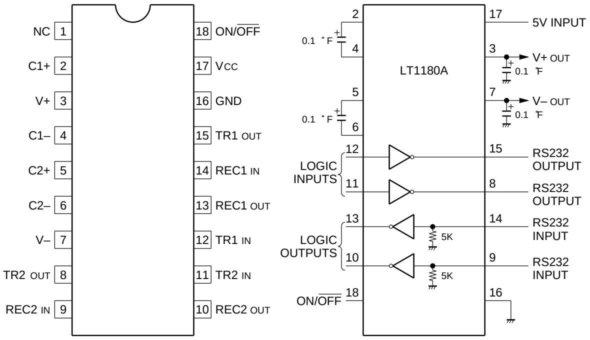
LM358PS (TI) FLAT PACKAGE

DUAL OPERATIONAL AMPLIFIERS
– TOP VIEW –


1
2
3
4 GND
Vcc (+3 to +30V) 8
7
6
5

LT1180ACS (LINEAR) FLAT PACKAGE

RS232 DUAL DRIVER/RECEIVER
– TOP VIEW –


NC 1
C1+ 2
V+ 3
C1– 4
C2+ 5
C2– 6
V– 7
TR2 OUT 8
REC2 IN 9
18 ON/OFF
17 Vcc
16 GND
15 TR1 OUT
14 REC1 IN
13 REC1 OUT
12 TR1 IN
11 TR2 IN
10 REC2 OUT
LT1180A
0.1 °F
0.1 °F
LOGIC INPUTS
LOGIC OUTPUTS
ON/OFF
5V INPUT
V+ OUT
V– OUT
0.1 °F
0.1 °F
RS232 OUTPUT
RS232 OUTPUT
RS232 INPUT
RS232 INPUT
5K
5K

INPUT

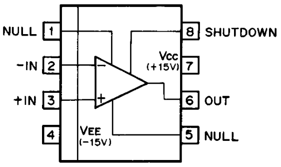
C1+,C1–,C2+,C2– ; COMMUTATING CAPACITOR
TR1, TR2 IN ; RS232 DRIVER SIGNAL
ON/OFF ; TTL/CMOS COMPATIBLE OPERATING MODE CONTROL
REC1, REC2 IN ; RECEIVER

OUTPUT

V+ ; POSITIVE SUPPLY (RS-232 DRIVERS)
V– ; NEGATIVE SUPPLY (RS-232 DRIVERS)
TR1, TR2 OUT ; RS232 DRIVER SIGNAL (RS232 LEVELS)
REC1, REC2 OUT ; RECEIVER (TTL/CMOS VOLTAGE LEVELS)

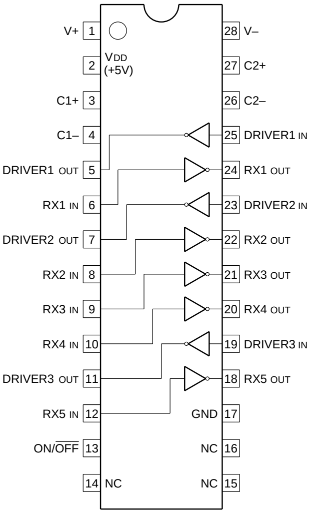
LT1227CS8 (LINEAR TECH) FLAT PACKAGE

HIGH SPEED OPERATIONAL AMPLIFIER
– TOP VIEW –


NULL 1
–IN 2
+IN 3
4
8 SHUTDOWN
Vcc (+15V) 7
6 OUT
5 NULL
VEE (–15V)

LTC1337CS (LINEAR) FLAT PACKAGE

CMOS RS232 TRANSCEIVER
– TOP VIEW –


V+ 1
2 VDD (+5V)
C1+ 3
C1– 4
DRIVER1 OUT 5
RX1 IN 6
DRIVER2 OUT 7
RX2 IN 8
RX3 IN 9
RX4 IN 10
DRIVER3 OUT 11
RX5 IN 12
ON/OFF 13
14 NC
28 V–
27 C2+
26 C2–
25 DRIVER1 IN
24 RX1 OUT
23 DRIVER2 IN
22 RX2 OUT
21 RX3 OUT
20 RX4 OUT
19 DRIVER3 IN
18 RX5 OUT
GND 17
NC 16
NC 15

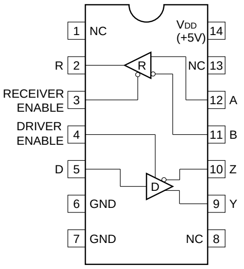
INPUT
DRIVER1 ‘3 IN ; RS-232 DRIVER INPUTS
RX1 ‘5 IN ; RECEIVER INPUTS

OUTPUT
DRIVER1 ‘3 OUT ; RS-232 DRIVER OUTPUTS
RX1 ‘5 OUT ; RECEIVER OUTPUTS TTL/CMOS VOLTAGE LEVELS

C1+,C1–,C2+,C2– ; EXTERNAL CAPACITORS
V+ ; POSITIVE SUPPLY (RS-232 DRIVERS)
V– ; NEGATIVE SUPPLY (RS-232 DRIVERS)

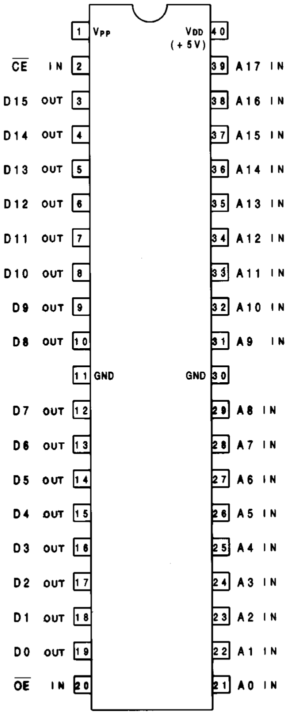
LTC491CS (LINEAR) FLAT PACKAGE

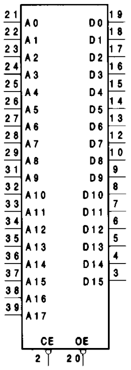
C-MOS DIFFERENTIAL DRIVER AND RECEIVER
– TOP VIEW –


1 NC
R 2
RECEIVER ENABLE 3
DRIVER ENABLE 4
D 5
6 GND
7 GND
VDD (+5V) 14
NC 13
12 A
11 B
10 Z
9 Y
NC 8
R
D

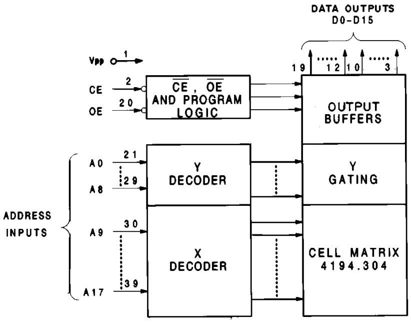
M27C4002-10F1 (SGS)

C-MOS 4M (256k × 16) -BIT UV EPROM
– TOP VIEW –


1 VPP
CE IN 2
D15 OUT 3
D14 OUT 4
D13 OUT 5
D12 OUT 6
D11 OUT 7
D10 OUT 8
D9 OUT 9
D8 OUT 10
11 GND
D7 OUT 12
D6 OUT 13
D5 OUT 14
D4 OUT 15
D3 OUT 16
D2 OUT 17
D1 OUT 18
D0 OUT 19
OE IN 20
VDD (+5V) 40
39 A17 IN
38 A16 IN
37 A15 IN
36 A14 IN
35 A13 IN
34 A12 IN
33 A11 IN
32 A10 IN
31 A9 IN
GND 30
29 A8 IN
28 A7 IN
27 A6 IN
26 A5 IN
25 A4 IN
24 A3 IN
23 A2 IN
22 A1 IN
21 A0 IN


21 A0
22 A1
23 A2
24 A3
25 A4
26 A5
27 A6
28 A7
29 A8
31 A9
32 A10
33 A11
34 A12
35 A13
36 A14
37 A15
38 A16
39 A17
D0 19
D1 18
D2 17
D3 16
D4 15
D5 14
D6 13
D7 12
D8 10
D9 9
D10 8
D11 7
D12 6
D13 5
D14 4
D15 3
CE 2
OE 20

A0–A17 ;ADDRESS INPUTS
CE ;CHIP ENABLE
D0–D15 ;DATA OUTPUTS
OE ;OUTPUT ENABLE
VPP ;PROGRAMMING VOLTAGE
(PROGRAM : + 12.75V)


DATA OUTPUTS D0–D15
19
12
10
3
VPP 1
CE 2
OE 20
CE , OE AND PROGRAM LOGIC
OUTPUT BUFFERS
ADDRESS INPUTS
A0 21
A8 29
A9 30
A17 39
Y DECODER
Y GATING
X DECODER
CELL MATRIX 4194.304

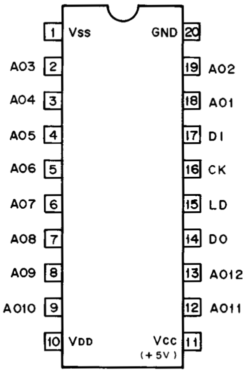
ABOVE DIAGRAM SHOWS CONDITIONS BEFORE PROGRAMMING.

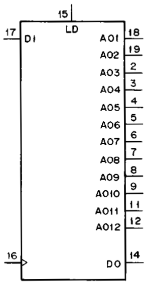
CE	OE	A9	VPP	OUTPUT	FUNCTION
0	0	×	×	DOUT	READ
0	1	×	×	HI-Z	OUTPUT DISABLE
0	1	×	VPP	DIN	PROGRAM
1	0	×	VPP	DOUT	VERIFY
1	1	×	VPP	HI-Z	PROGRAM INHIBIT
1	×	×	×	HI-Z	STANDBY
0	0	VH	VDD	CODE	ELECTRONIC SIGNATURE

1 ; HIGH LEVEL
0 ; LOW LEVEL
× ; DON'T CARE
HI-Z ; HIGH IMPEDANCE
VH ; 12.0 ± 0.5 V

M62352GP (MITSUBISHI) FLAT PACKAGE

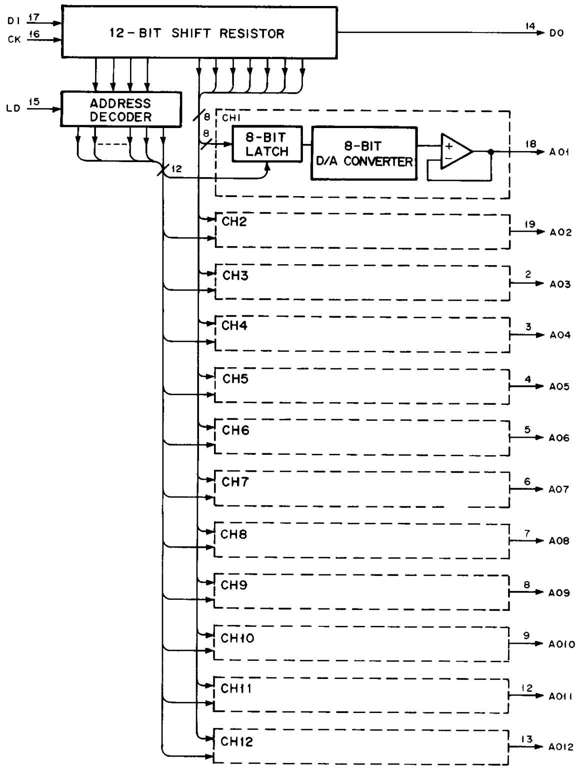
C-MOS 8-BIT × 12 CHANNEL D/A CONVERTER (WITH BUFFER OPERATIONAL AMPLIFIER)
– TOP VIEW –


1 Vss
GND 20
AO3 2
19 AO2
AO4 3
18 AO1
AO5 4
17 DI
AO6 5
16 CK
AO7 6
15 LD
AO8 7
14 DO
AO9 8
13 AO12
AO10 9
12 AO11
10 VDD
Vcc (+5V) 11


15
LD
17 DI
AO1 18
AO2 19
AO3 2
AO4 3
AO5 4
AO6 5
AO7 6
AO8 7
AO9 8
AO10 9
AO11 11
AO12 12
16
DO 14

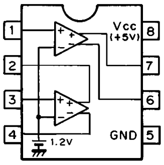
AO1 – AO12 ; 8-BIT D/A OUTPUT
CK ; CLOCK INPUT
DI ; SERIAL DATA INPUT
DO ; DATA OUTPUT

NOTE :
3.5V < VDD < Vcc
– 3.5V < Vss < Vcc


DI 17
CK 16
12-BIT SHIFT RESISTOR
14 DO
LD 15
ADDRESS DECODER
8
8
12
CH1
8-BIT LATCH
8-BIT D/A CONVERTER
18 AO1
CH2
19 AO2
CH3
2 AO3
CH4
3 AO4
CH5
4 AO5
CH6
5 AO6
CH7
6 AO7
CH8
7 AO8
CH9
8 AO9
CH10
9 AO10
CH11
12 AO11
CH12
13 AO12

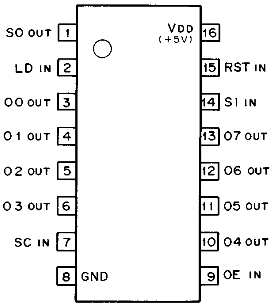
MB3761PF (FUJITSU) FLAT PACKAGE

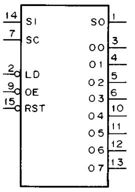
VOLTAGE DETECTOR
– TOP VIEW –


1
2
3
4
Vcc (+5V) 8
7
6
GND 5
1.2V

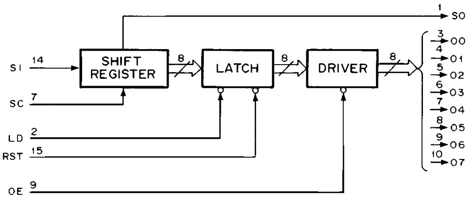
MB88306PF (FUJITSU) FLAT PACKAGE

C-MOS OUTPUT EXPANDER
– TOP VIEW –


SO OUT 1
LD IN 2
O0 OUT 3
O1 OUT 4
O2 OUT 5
O3 OUT 6
SC IN 7
8 GND
VDD (+5V) 16
15 RST IN
14 SI IN
13 O7 OUT
12 O6 OUT
11 O5 OUT
10 O4 OUT
9 OE IN

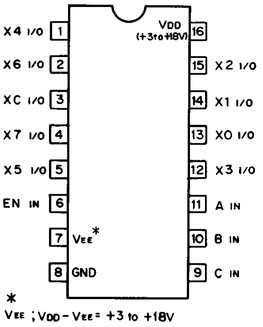

14 SI
7 SC
2 LD
9 OE
15 RST
SO 1
O0 3
O1 4
O2 5
O3 6
O4 10
O5 11
O6 12
O7 13

LD ; DATA LOAD INPUT
O0 – O7 ; 8 BIT PARALLEL OUTPUT PROT
OE ; OUTPUT ENABLE INPUT
RST ; RESET INPUT
SC ; SHIFT CLOCK INPUT
SI ; SERIAL DATA INPUT
SO ; SERIAL DATA OUTPUT

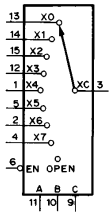

1 SO
SI 14
SHIFT REGISTER
8
LATCH
8
DRIVER
8
3 O0
4 O1
5 O2
6 O3
7 O4
8 O5
9 O6
10 O7
SC 7
LD 2
RST 15
OE 9

MC14051BF (MOTOROLA) FLAT PACKAGE

C-MOS 8-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER
– TOP VIEW –


X4 I/O 1
X6 I/O 2
XC I/O 3
X7 I/O 4
X5 I/O 5
EN IN 6
7 VEE*
8 GND
VDD (+3 to +18V) 16
15 X2 I/O
14 X1 I/O
13 X0 I/O
12 X3 I/O
11 A IN
10 B IN
9 C IN

*
VEE ; VDD – VEE = +3 to +18V


13 X0
14 X1
15 X2
12 X3
1 X4
5 X5
2 X6
4 X7
XC 3
6 EN
OPEN
A B C
11 10 9

CONTROL INPUTS				SELECTED CHANNEL
EN	SELECT			
	C	B	A	
0	0	0	0	X0
0	0	0	1	X1
0	0	1	0	X2
0	0	1	1	X3
0	1	0	0	X4
0	1	0	1	X5
0	1	1	0	X6
0	1	1	1	X7
1	X	X	X	OPEN

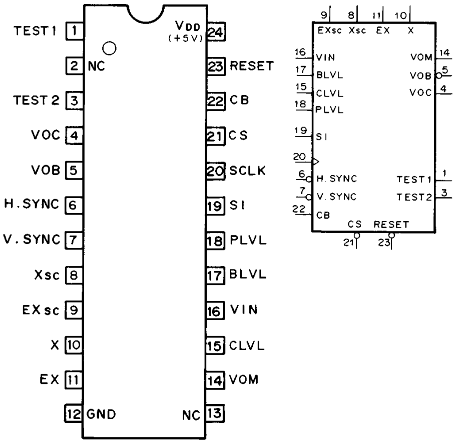
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

X0 to X7; ANALOG INPUTS/OUTPUTS
XC; COMMON INPUT/OUTPUT
A, B, C; CHANNEL SELECT INPUT
EN; ENABLE INPUT

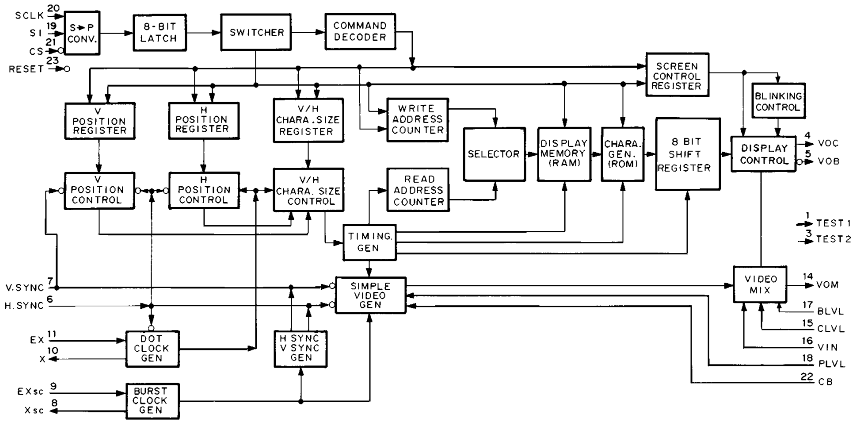
http://getMANUAL.com

MB88323A-PF-K2 (FUJITSU) FLAT PACKAGE

C-MOS TV DISPLAY CONTROLLER
– TOP VIEW –

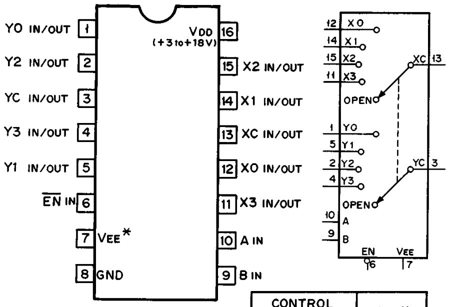

TEST1 1
2 NC
TEST2 3
VOC 4
VOB 5
H.SYNC 6
V.SYNC 7
Xsc 8
EXsc 9
X 10
EX 11
12 GND
VDD (+5V) 24
23 RESET
22 CB
21 CS
20 SCLK
19 SI
18 PLVL
17 BLVL
16 VIN
15 CLVL
14 VOM
NC 13
9 EXsc
8 Xsc
11 EX
10 X
16 VIN
17 BLVL
15 CLVL
18 PLVL
19 SI
20
6 H.SYNC
7 V.SYNC
22 CB
VOM 14
VOB 5
VOC 4
TEST1 1
TEST2 3
CS 21
RESET 23

BLVL	;	BORDER OR BACKGROUND ANALOG LEVEL INPUT
CB	;	COLOR BURST DETECTION INPUT
CLVL	;	CHARACTER ANALOG LEVEL INPUT
CS	;	CHIP SELECT INPUT
EX	;	DOT CLOCK INPUT
EXsc	;	COLOR BURST CLOCK INPUT
H.SYNC	;	H SYNC INPUT
PLVL	;	VIDEO LEVEL CONTROL INPUT
SI	;	SERIAL DATA INPUT
TEST1	;	CHIP TEST OUTPUT
TEST2	;	(NORMALLY SET TO OPEN)
VIN	;	VIDEO SIGNAL INPUT
VOB	;	BORDER OR BACKGROUND SIGNAL OUTPUT
VOC	;	CHARACTER SIGNAL OUTPUT
VOM	;	VIDEO/CHARACTER/BORDER OR BACKGROUND MIX OUTPUT
V.SYNC	;	V SYNC INPUT
X	;	DOT CLOCK OUTPUT
Xsc	;	COLOR BURST CLOCK OUTPUT


SCLK 20
SI 19
CS 21
RESET 23
S→P CONV.
8-BIT LATCH
SWITCHER
COMMAND DECODER
SCREEN CONTROL REGISTER
BLINKING CONTROL
V POSITION REGISTER
H POSITION REGISTER
V/H CHARA.SIZE REGISTER
WRITE ADDRESS COUNTER
SELECTOR
DISPLAY MEMORY (RAM)
CHARA. GEN. (ROM)
8 BIT SHIFT REGISTER
DISPLAY CONTROL
4 VOC
5 VOB
V POSITION CONTROL
H POSITION CONTROL
V/H CHARA. SIZE CONTROL
READ ADDRESS COUNTER
TIMING. GEN
1 TEST1
3 TEST2
V.SYNC 7
H.SYNC 6
SIMPLE VIDEO GEN
VIDEO MIX
14 VOM
17 BLVL
15 CLVL
16 VIN
18 PLVL
22 CB
EX 11
X 10
DOT CLOCK GEN
H SYNC V SYNC GEN
EXsc 9
Xsc 8
BURST CLOCK GEN

MC14052BF (MOTOROLA) FLAT PACKAGE

C-MOS DUAL 4-CHANNEL ANALOG MULTIPLEXERS/DEMULTIPLEXERS
– TOP VIEW –


Y0 IN/OUT 1
Y2 IN/OUT 2
YC IN/OUT 3
Y3 IN/OUT 4
Y1 IN/OUT 5
EN IN 6
7 VEE*
8 GND
VDD (+3 to +18V) 16
15 X2 IN/OUT
14 X1 IN/OUT
13 XC IN/OUT
12 X0 IN/OUT
11 X3 IN/OUT
10 A IN
9 B IN
12 X0
14 X1
15 X2
11 X3
XC 13
OPEN
1 Y0
5 Y1
2 Y2
4 Y3
YC 3
OPEN
10 A
9 B
EN 6
VEE 7

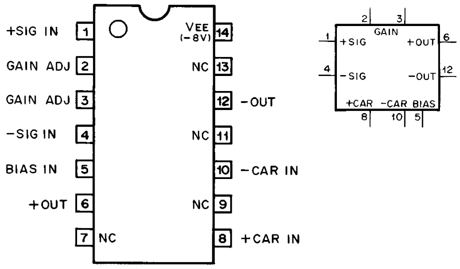
VEE*; VDD – VEE = + 3 to + 18V

CONTROL INPUTS			"ON" CHANNEL
EN	B	A	
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	X	X	OPEN

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE.

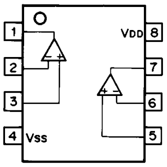
MC1496M (MOTOROLA) FLAT PACKAGE

BALANCED MODULATOR/DEMODULATOR
– TOP VIEW –


+SIG IN 1
GAIN ADJ 2
GAIN ADJ 3
−SIG IN 4
BIAS IN 5
+OUT 6
7 NC
VEE (−8V) 14
NC 13
12 −OUT
NC 11
10 −CAR IN
NC 9
8 +CAR IN
2 3 GAIN
1 +SIG
+OUT 6
4 −SIG
−OUT 12
+CAR 8
−CAR 10
BIAS 5

MC14577CF (MOTOROLA) FLAT PACKAGE

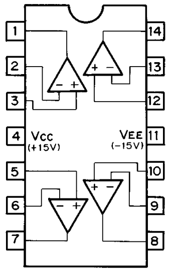
C-MOS DUAL VIDEO AMPLIFIERS
– TOP VIEW –


1
2
3
4
VDD
VSS
8
7
6
5

※VDD + | VSS | = + 5V to + 12V

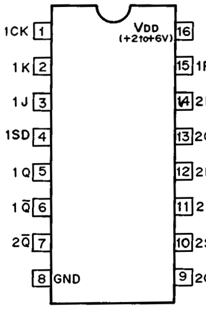
MC34184M (MOTOROLA) FLAT PACKAGE

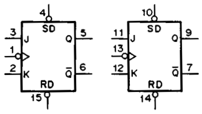
JFET INPUT OPERATIONAL AMPLIFIER
– TOP VIEW –


1
2
3
4
5
6
7
Vcc
(+15V)
VEE
(–15V)
14
13
12
11
10
9
8

MC74HC112F (MOTOROLA) FLAT PACKAGE

C-MOS J-K FLIP-FLOP WITH DIRECT SET/RESET
– TOP VIEW –


1CK 1
1K 2
1J 3
1SD 4
1Q 5
1Q̄ 6
2Q̄ 7
8 GND
VDD
(+2 to +6V)
16
15 1RD
14 2RD
13 2CK
12 2K
11 2J
10 2SD
9 2Q

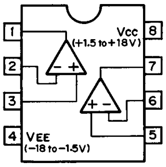

4
SD
3
J
1
2
K
RD
15
Q
5
Q̄
6
10
SD
11
J
13
12
K
RD
14
Q
9
Q̄
7

INPUT					OUTPUT	
SD	RD	CK	J	K	Qn+1	$\overline{\text{Qn+1}}$
0	1	X	X	X	1	0
1	0	X	X	X	0	1
0	0	X	X	X	1*	1*
1	1	↘	0	0	Qn	$\overline{\text{Qn}}$
			0	1	0	1
			1	0	1	0
			1	1	$\overline{\text{Qn}}$	Qn
1	1	1	X	X	Qn	$\overline{\text{Qn}}$

0; LOW LEVEL X; DON'T CARE
1; HIGH LEVEL *; NONSTABLE

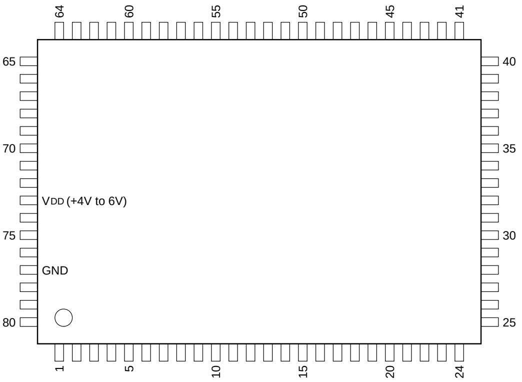
NJM062M (JRC) FLAT PACKAGE
TL062CPW (TI) FLAT PACKAGE

OPERATIONAL AMPLIFIER\ (J FET INPUT)
– TOP VIEW –


1
2
3
4
VEE
(–18 to –1.5V)
Vcc
(+1.5 to +18V)
8
7
6
5

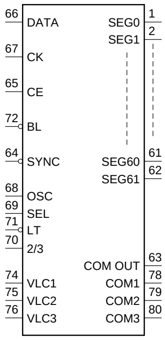
MSM6660-01GS-V1K (OKI)

C-MOS LCD DRIVER
– TOP VIEW –


64
60
55
50
45
41
65
70
75
80
40
35
30
25
VDD (+4V to 6V)
GND
1
5
10
15
20
24

NOTE ; VDD ≧ VLC1 ≧ VLC2 ≧ VLC3 ≧ GND

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	O	SEG0	21	O	SEG20	41	O	SEG40	61	O	SEG60
2	O	SEG1	22	O	SEG21	42	O	SEG41	62	O	SEG61
3	O	SEG2	23	O	SEG22	43	O	SEG42	63	O	COM OUT
4	O	SEG3	24	O	SEG23	44	O	SEG43	64	I/O	$\overline{\text{SYNC}}$
5	O	SEG4	25	O	SEG24	45	O	SEG44	65	I	CE
6	O	SEG5	26	O	SEG25	46	O	SEG45	66	I	DATA
7	O	SEG6	27	O	SEG26	47	O	SEG46	67	I	CK
8	O	SEG7	28	O	SEG27	48	O	SEG47	68	I/O	OSC
9	O	SEG8	29	O	SEG28	49	O	SEG48	69	I	SEL
10	O	SEG9	30	O	SEG29	50	O	SEG49	70	I	2/3
11	O	SEG10	31	O	SEG30	51	O	SEG50	71	I	$\overline{\text{LT}}$
12	O	SEG11	32	O	SEG31	52	O	SEG51	72	I	$\overline{\text{BL}}$
13	O	SEG12	33	O	SEG32	53	O	SEG52	73	–	VDD
14	O	SEG13	34	O	SEG33	54	O	SEG53	74	I	VLC1
15	O	SEG14	35	O	SEG34	55	O	SEG54	75	I	VLC2
16	O	SEG15	36	O	SEG35	56	O	SEG55	76	I	VLC3
17	O	SEG16	37	O	SEG36	57	O	SEG56	77	–	GND
18	O	SEG17	38	O	SEG37	58	O	SEG57	78	O	COM1
19	O	SEG18	39	O	SEG38	59	O	SEG58	79	O	COM2
20	O	SEG19	40	O	SEG39	60	O	SEG59	80	O	COM3


66
DATA
67
CK
65
CE
72
BL
64
SYNC
68
OSC
69
SEL
71
LT
70
2/3
74
VLC1
75
VLC2
76
VLC3
SEG0
1
SEG1
2
SEG60
61
SEG61
62
COM OUT
63
COM1
78
COM2
79
COM3
80

INPUT

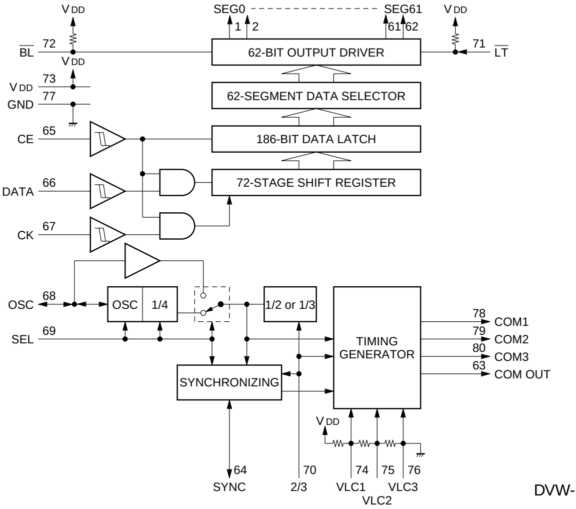
2/3	; 1/2 DUTY/ 1/3 DUTY SELECT
$\overline{\text{BL}}$	; LCD INDICATION CONTROL ("L" ALL SEGMENTS OFF)
CE	; CHIP SELECT
CK	; SHIFT CLOCK FOR SERIAL DATA
DATA	; DATA
$\overline{\text{LT}}$	; LCD INDICATION CONTROL ("L" ALL SEGMENTS ON)
SEL	; CONTROL/CONTROLED SELECT
VLC1-3	; LCD BIAS VOLTAGE

OUTPUT

COM OUT	; SYNC CLOCK FOR LCD
COM1-3	; COMMON SIGNAL FOR LCD DRIVE
SEG0-61	; SEGMENT SIGNAL FOR LCD

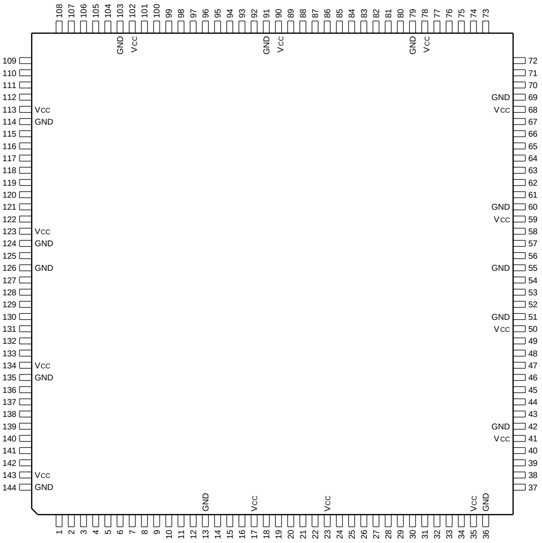
INPUT/OUTPUT

OSC	; OSC
$\overline{\text{SYNC}}$	; SYNC SIGNAL

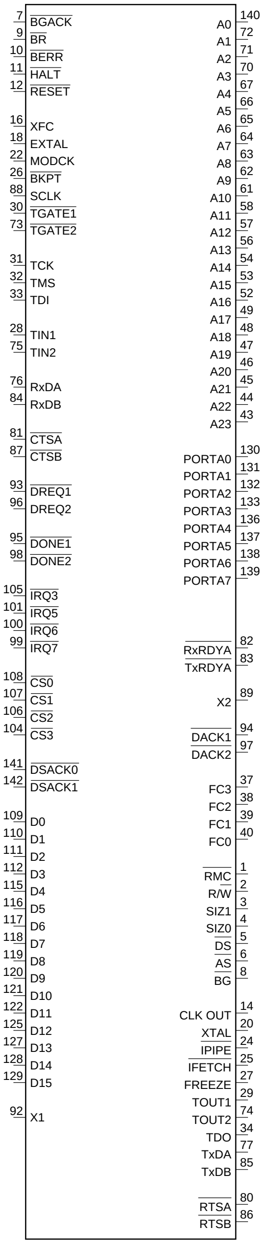

VDD
SEG0
SEG61
VDD
1
2
61
62
BL
72
VDD
71
LT
62-BIT OUTPUT DRIVER
VDD
73
77
GND
62-SEGMENT DATA SELECTOR
CE
65
186-BIT DATA LATCH
DATA
66
72-STAGE SHIFT REGISTER
CK
67
OSC
68
OSC
1/4
1/2 or 1/3
SEL
69
TIMING GENERATOR
SYNCHRONIZING
78
COM1
79
COM2
80
COM3
63
COM OUT
VDD
64
SYNC
70
2/3
74
75
76
VLC1
VLC2
VLC3

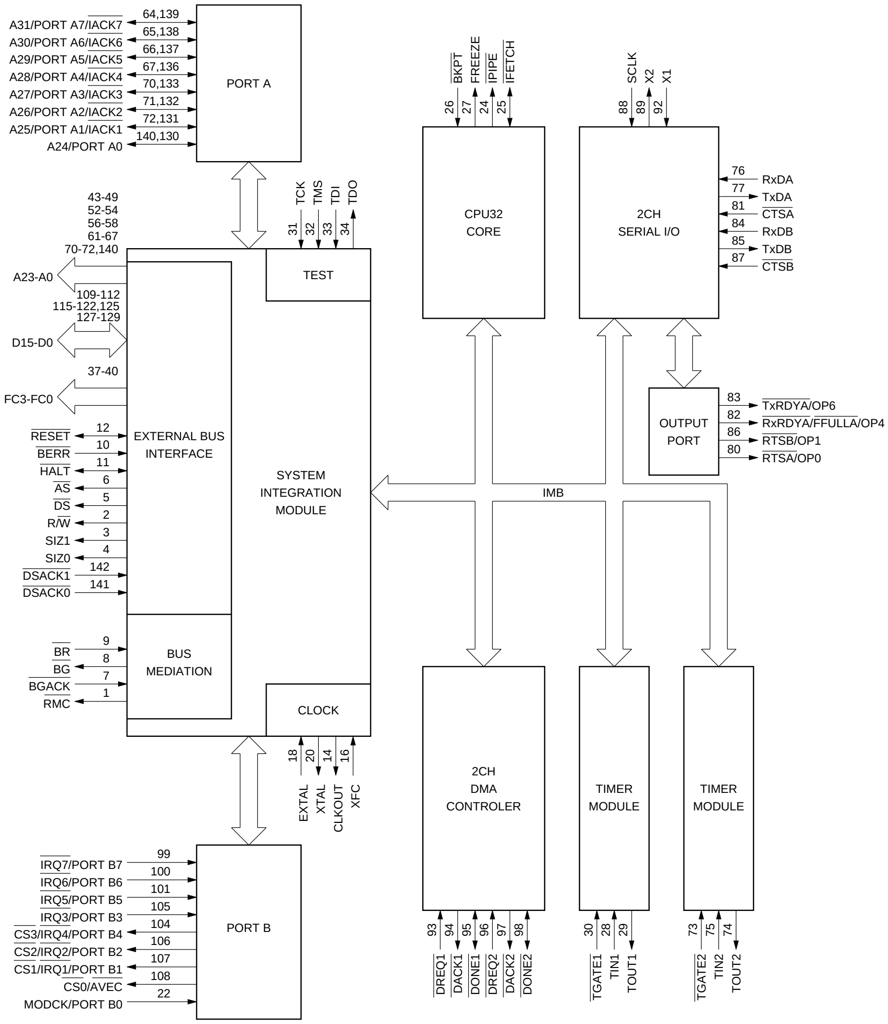
MC68340FE16B (MOTOROLA)
MC68340FE16C (MOTOROLA)

32-BIT MICROPROCESSOR
– TOP VIEW –


108 107 106 105 104 103 102 101 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73
GND
Vcc
GND
Vcc
GND
Vcc
109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144
Vcc
GND
Vcc
GND
GND
Vcc
GND
Vcc
GND
72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37
GND
Vcc
GND
Vcc
GND
GND
Vcc
GND
Vcc
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36
GND
Vcc
Vcc
Vcc
GND

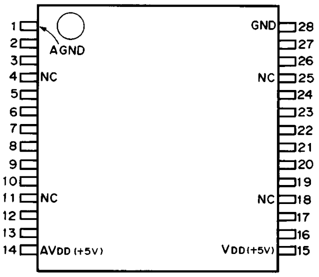
PIN No.	I/O	SIGNAL	SIGNAL NAME	PIN No.	I/O	SIGNAL	SIGNAL NAME	PIN No.	I/O	SIGNAL	SIGNAL NAME	PIN No.	I/O	SIGNAL	SIGNAL NAME
1	O	$\overline{\text{RMC}}$	READ-MODIFY-WRITE CYCLE	41	–	Vcc		81	I	$\overline{\text{CTSA}}$	CLEAR-TO-SEND	121	I/O	D10	DATA BUS
2	O	R/$\overline{\text{W}}$	READ/WRITE	42	–	GND		82	O	$\overline{\text{RxRDYA}}$	RECEIVER READY/FIFO FULL/OP4	122	I/O	D11	DATA BUS
3	O	SIZ1	SIZE	43	O	A23	ADDRESS BUS	83	O	$\overline{\text{TxRDYA}}$	TRANSMITTER READY/OP6	123	–	Vcc	
4	O	SIZ0	SIZE	44	O	A22	ADDRESS BUS	84	I	RxDB	RECEIVE DATA	124	–	GND	
5	O	$\overline{\text{DS}}$	DATA STROBE	45	O	A21	ADDRESS BUS	85	O	TxDB	TRANSMIT DATA	125	I/O	D12	DATA BUS
6	O	$\overline{\text{AS}}$	ADDRESS STROBE	46	O	A20	ADDRESS BUS	86	O	$\overline{\text{RTSB}}$	REQUEST-TO-SEND/OP1,OP0	126	–	GND	
7	I	$\overline{\text{BGACK}}$	BUS GRANT ACKNOWLEDGE	47	O	A19	ADDRESS BUS	87	I	$\overline{\text{CTSB}}$	CLEAR-TO-SEND	127	I/O	D13	DATA BUS
8	O	$\overline{\text{BG}}$	BAS GRANT	48	O	A18	ADDRESS BUS	88	I	SCLK	SERIAL CLOCK	128	I/O	D14	DATA BUS
9	I	$\overline{\text{BR}}$	BUS REQUEST	49	O	A17	ADDRESS BUS	89	O	X2	SERIAL CRYSTAL OSCILLATOR	129	I/O	D15	DATA BUS
10	I	$\overline{\text{BERR}}$	BUS ERROR	50	–	Vcc		90	–	Vcc		130	I/O	A24	ADDRESS BUS/PORT A0 INTERRUPT ACKNOWLEDGE
11	I/O	$\overline{\text{HALT}}$	HALT	51	–	GND		91	–	GND		131	I/O	A25	ADDRESS BUS/PORT A1 INTERRUPT ACKNOWLEDGE
12	I/O	$\overline{\text{RESET}}$	RESET	52	O	A16	ADDRESS BUS	92	I	X1	SERIAL CRYSTAL OSCILLATOR	132	I/O	A26	ADDRESS BUS/PORT A2 INTERRUPT ACKNOWLEDGE
13	–	GND		53	O	A15	ADDRESS BUS	93	I	$\overline{\text{DREQ1}}$	DMA REQUEST	133	I/O	A27	ADDRESS BUS/PORT A3 INTERRUPT ACKNOWLEDGE
14	O	CLKOUT	SYSTEM CLOCK	54	O	A14	ADDRESS BUS	94	O	$\overline{\text{DACK1}}$	DMA ACKNOWLEDGE	134	–	Vcc	
15	–	Vcc		55	–	GND		95	I/O	$\overline{\text{DONE1}}$	DMA DONE	135	–	GND	
16	I	XFC	EXTERNAL FILTER CAPACITOR	56	O	A13	ADDRESS BUS	96	I	$\overline{\text{DREQ2}}$	DMA REQUEST	136	I/O	A28	ADDRESS BUS/PORT A4 INTERRUPT ACKNOWLEDGE
17	–	Vcc		57	O	A12	ADDRESS BUS	97	O	$\overline{\text{DACK2}}$	DMA ACKNOWLEDGE	137	I/O	A29	ADDRESS BUS/PORT A5 INTERRUPT ACKNOWLEDGE
18	I	EXTAL	CRYSTAL OSCILLATOR	58	O	A11	ADDRESS BUS	98	I/O	$\overline{\text{DONE2}}$	DMA DONE	138	I/O	A30	ADDRESS BUS/PORT A6 INTERRUPT ACKNOWLEDGE
19	–	Vcc SYN	SYNCHRONIZER POWER	59	–	Vcc		99	I	$\overline{\text{IRQ7}}$	INTERRUPT REQUEST LEVEL/ PORT B7,B6,B5,B3	139	I/O	A31	ADDRESS BUS/PORT A7 INTERRUPT ACKNOWLEDGE
20	O	XTAL	CRYSTAL OSCILLATOR	60	–	GND		100	I	$\overline{\text{IRQ6}}$	INTERRUPT REQUEST LEVEL/ PORT B7,B6,B5,B3	140	O	A0	ADDRESS BUS
21	–	GND		61	O	A10	ADDRESS BUS	101	I	$\overline{\text{IRQ5}}$	INTERRUPT REQUEST LEVEL/ PORT B7,B6,B5,B3	141	I	$\overline{\text{DSACK0}}$	DATA AND SIZE ACKNOWLEDGE
22	I	MODCK	CLOCK MODE SELECT/PORT B0	62	O	A9	ADDRESS BUS	102	–	Vcc		142	I	$\overline{\text{DSACK1}}$	DATA AND SIZE ACKNOWLEDGE
23	–	Vcc		63	O	A8	ADDRESS BUS	103	–	GND		143	–	Vcc	
24	O	$\overline{\text{IPIPE}}$	INSTRUCTION PIPE/ DEVELOPMENT SERIAL OUT	64	O	A7	ADDRESS BUS	104	O	$\overline{\text{CS3}}$	CHIP SELECT 3-1/ INTERRUPT REQUEST LEVEL/PORT B4,B2,B1	144	–	GND	
25	I/O	$\overline{\text{IFETCH}}$	INSTRUCTION FETCH/ DEVELOPMENT SERIAL IN	65	O	A6	ADDRESS BUS	105	I	$\overline{\text{IRQ3}}$	INTERRUPT REQUEST LEVEL/ PORT B7,B6,B5,B3				
26	I	$\overline{\text{BKPT}}$	BREAKPOINT/DEVELOPMENT SERIAL CLOCK	66	O	A5	ADDRESS BUS	106	O	$\overline{\text{CS2}}$	CHIP SELECT 3-1/ INTERRUPT REQUEST LEVEL/PORT B4,B2,B1				
27	O	FREEZE	FREEZE	67	O	A4	ADDRESS BUS	107	O	$\overline{\text{CS1}}$	CHIP SELECT 3-1/ INTERRUPT REQUEST LEVEL/PORT B4,B2,B1				
28	I	TIN1	TIMER INPUT	68	–	Vcc		108	O	$\overline{\text{CS0}}$	CHIP SELECT O/AUTOVECTOR				
29	O	TOUT1	TIMER OUTPUT	69	–	GND		109	I/O	D0	DATA BUS				
30	I	$\overline{\text{TGATE1}}$	TIMER GATE	70	O	A3	ADDRESS BUS	110	I/O	D1	DATA BUS				
31	I	TCK	TEST CLOCK	71	O	A2	ADDRESS BUS	111	I/O	D2	DATA BUS				
32	I	TMS	TEST MODE SELECT	72	O	A1	ADDRESS BUS	112	I/O	D3	DATA BUS				
33	I	TDI	TEST DATA IN	73	I	$\overline{\text{TGATE2}}$	TIMER GATE	113	–	Vcc					
34	O	TDO	TEST DATA OUT	74	O	TOUT2	TIMER OUTPUT	114	–	GND					
35	–	Vcc		75	I	TIN2	TIMER INPUT	115	I/O	D4	DATA BUS				
36	–	GND		76	I	RxDA	RECEIVE DATA	116	I/O	D5	DATA BUS				
37	O	FC3	FUNCTION CODE	77	O	TxDA	TRANSMIT DATA	117	I/O	D6	DATA BUS				
38	O	FC2	FUNCTION CODE	78	–	Vcc		118	I/O	D7	DATA BUS				
39	O	FC1	FUNCTION CODE	79	–	GND		119	I/O	D8	DATA BUS				
40	O	FC0	FUNCTION CODE	80	O	$\overline{\text{RTSA}}$	REQUEST-TO-SEND/OP1,OP0	120	I/O	D9	DATA BUS				

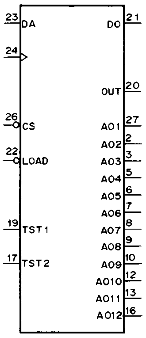

7 BGACK
9 BR
10 BERR
11 HALT
12 RESET
16 XFC
18 EXTAL
22 MODCK
26 BKPT
88 SCLK
30 TGATE1
73 TGATE2
31 TCK
32 TMS
33 TDI
28 TIN1
75 TIN2
76 RxDA
84 RxDB
81 CTSA
87 CTSB
93 DREQ1
96 DREQ2
95 DONE1
98 DONE2
105 IRQ3
101 IRQ5
100 IRQ6
99 IRQ7
108 CS0
107 CS1
106 CS2
104 CS3
141 DSACK0
142 DSACK1
109 D0
110 D1
111 D2
112 D3
115 D4
116 D5
117 D6
118 D7
119 D8
120 D9
121 D10
122 D11
125 D12
127 D13
128 D14
129 D15
92 X1
A0 140
A1 72
A2 71
A3 70
A4 67
A5 66
A6 65
A7 64
A8 63
A9 62
A10 61
A11 58
A12 57
A13 56
A14 54
A15 53
A16 52
A17 49
A18 48
A19 47
A20 46
A21 45
A22 44
A23 43
PORTA0 130
PORTA1 131
PORTA2 132
PORTA3 133
PORTA4 136
PORTA5 137
PORTA6 138
PORTA7 139
RxRDYA 82
TxRDYA 83
X2 89
DACK1 94
DACK2 97
FC3 37
FC2 38
FC1 39
FC0 40
RMC 1
R/W 2
SIZ1 3
SIZ0 4
DS 5
AS 6
BG 8
CLK OUT 14
XTAL 20
IPIPE 24
IFETCH 25
FREEZE 27
TOUT1 29
TOUT2 74
TDO 34
TxDA 77
TxDB 85
RTSA 80
RTSB 86


A31/PORT A7/IACK7 64,139
A30/PORT A6/IACK6 65,138
A29/PORT A5/IACK5 66,137
A28/PORT A4/IACK4 67,136
A27/PORT A3/IACK3 70,133
A26/PORT A2/IACK2 71,132
A25/PORT A1/IACK1 72,131
A24/PORT A0 140,130
PORT A
43-49
52-54
56-58
61-67
70-72,140
A23-A0
109-112
115-122,125
127-129
D15-D0
37-40
FC3-FC0
RESET 12
BERR 10
HALT 11
AS 6
DS 5
R/W 2
SIZ1 3
SIZ0 4
DSACK1 142
DSACK0 141
BR 9
BG 8
BGACK 7
RMC 1
EXTERNAL BUS INTERFACE
BUS MEDIATION
TCK 31
TMS 32
TDI 33
TDO 34
TEST
SYSTEM INTEGRATION MODULE
CLOCK
18 EXTAL
20 XTAL
14 CLKOUT
16 XFC
IRQ7/PORT B7 99
IRQ6/PORT B6 100
IRQ5/PORT B5 101
IRQ3/PORT B3 105
CS3/IRQ4/PORT B4 104
CS2/IRQ2/PORT B2 106
CS1/IRQ1/PORT B1 107
CS0/AVEC 108
MODCK/PORT B0 22
PORT B
26 BKPT
27 FREEZE
24 IPIPE
25 IFETCH
CPU32 CORE
88 SCLK
89 X2
92 X1
2CH SERIAL I/O
76 RxDA
77 TxDA
81 CTSA
84 RxDB
85 TxDB
87 CTSB
OUTPUT PORT
83 TxRDYA/OP6
82 RxRDYA/FFULLA/OP4
86 RTSB/OP1
80 RTSA/OP0
IMB
2CH DMA CONTROLER
93 DREQ1
94 DACK1
95 DONE1
96 DREQ2
97 DACK2
98 DONE2
TIMER MODULE
30 TGATE1
28 TIN1
29 TOUT1
TIMER MODULE
73 TGATE2
75 TIN2
74 TOUT2

MSM6524GS-VK (OKI) FLAT PACKAGE

C-MOS 12 CHANNELS 8-BITS D-A CONVERTER WITH 96-BIT EEPROM
– TOP VIEW –


1
2
3
4
5
6
7
8
9
10
11
12
13
14
AGND
NC
NC
AVDD (+5V)
GND
NC
NC
VDD(+5V)
28
27
26
25
24
23
22
21
20
19
18
17
16
15


23 DA
24
26 CS
22 LOAD
19 TST1
17 TST2
DO 21
OUT 20
AO1 27
AO2 2
AO3 3
AO4 5
AO5 6
AO6 7
AO7 8
AO8 9
AO9 10
AO10 12
AO11 13
AO12 16

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	–	A GND	15	–	V_{DD} (+5 V)
2	O	AO2	16	O	AO12
3	O	AO3	17	I	TST2
4	–	NC	18	–	NC
5	O	AO4	19	I	TST1
6	O	AO5	20	O	OUT
7	O	AO6	21	O	DO
8	O	AO7	22	I	$\overline{\text{LOAD}}$
9	O	AO8	23	I	DA
10	O	AO9	24	I	CLK
11	–	NC	25	–	NC
12	O	AO10	26	I	$\overline{\text{CS}}$
13	O	AO11	27	O	AO1
14	–	AV_{DD} (+5 V)	28	–	GND

INPUT

CLK	; SHIFT CLOCK
CS	; WRITE MODE PROTECT
DA	; SERIAL DATA
LOAD	; LOAD INPUT OF 8-BIT SHIFT REGISTER
TST1, TST2	; TEST PINS

OUTPUT

AO0 – AO12	; 8-BIT D/A OUTPUTS
DO	; LSB BIT DATA OF 8-BIT SHIFT REGISTER
OUT	; MONITOR PIN

MODE (1) WRITE

1st BYTE								2nd BYTE							
D0	D1	D2	D3	D4	D5	D6	D7	D0	D1	D2	D3	D4	D5	D6	D7
1	0	0	1	A0	A1	A2	A3	10	11	12	13	14	15	16	17
MODE SELECT				ADDRESS SELECT				DA DATA SET							

MODE (2) LOAD

1st BYTE								2nd BYTE							
D0	D1	D2	D3	D4	D5	D6	D7	D0	D1	D2	D3	D4	D5	D6	D7
1	1	1	1	A0	A1	A2	A3	10	11	12	13	14	15	16	17
MODE SELECT				ADDRESS SELECT				DA DATA SET							

MODE (3) MEMORY TEST

1st BYTE								2nd BYTE							
D0	D1	D2	D3	D4	D5	D6	D7	D0	D1	D2	D3	D4	D5	D6	D7
0	0	1	1	A0	A1	A2	A3	O0	O1	O2	O3	O4	O5	O6	O7
MODE SELECT				ADDRESS SELECT				MEMORY DATA OUTPUT							

0 : LOW LEVEL
1 : HIGH LEVEL

MODE SELECT

D0	D1	D2	D3	MODE SELECT
1	0	0	1	MODE1
1	1	1	1	MODE2
0	0	1	1	MODE3
OTHERS				DON'T CARE

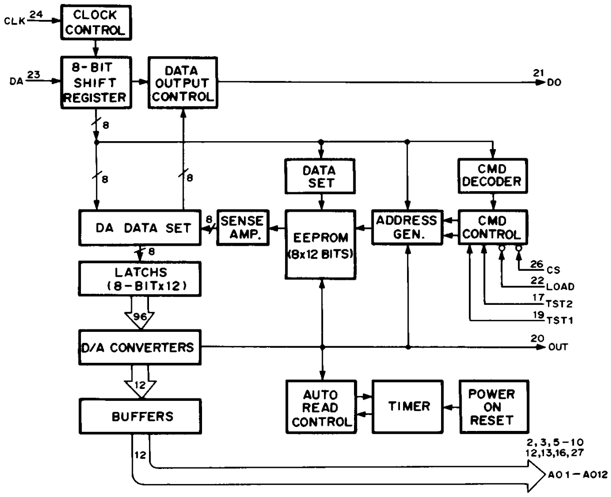
ADDRESS SELECT

D4	D5	D6	D7	ADDRESS SELECT
A0	A1	A2	A3	
0	0	0	0	DON'T CARE
1	0	0	0	AO1
0	1	0	0	AO2
1	1	0	0	AO3
0	0	1	0	AO4
1	0	1	0	AO5
0	1	1	0	AO6
1	1	1	0	AO7
0	0	0	1	AO8
1	0	0	1	AO9
0	1	0	1	AO10
1	1	0	1	AO11
0	0	1	1	AO12
1	0	1	1	DON'T CARE
0	1	1	1	DON'T CARE
1	1	1	1	DON'T CARE

D/A OUTPUT

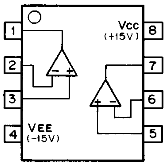
D0	D1	D2	D3	D4	D5	D6	D7	D/A OUTPUT
I0	I1	I2	I3	I4	I5	I6	I7	
0	0	0	0	0	0	0	0	≒ VOLA + (VOHA − VOLA) / 256 × 1
1	0	0	0	0	0	0	0	≒ VOLA + (VOHA − VOLA) / 256 × 2
0	1	0	0	0	0	0	0	≒ VOLA + (VOHA − VOLA) / 256 × 3
1	1	0	0	0	0	0	0	≒ VOLA + (VOHA − VOLA) / 256 × 4
0	0	1	0	0	0	0	0	≒ VOLA + (VOHA − VOLA) / 256 × 5
∫	∫	∫	∫	∫	∫	∫	∫	∫ ∫ ∫
0	0	1	1	1	1	1	1	≒ VOLA + (VOHA − VOLA) / 256 × 256
1	0	1	1	1	1	1	1	≒ VOLA + (VOHA − VOLA) / 256 × 254
0	1	1	1	1	1	1	1	≒ VOLA + (VOHA − VOLA) / 256 × 255
1	1	1	1	1	1	1	1	≒ VOLH

0 : LOW LEVEL
1 : HIGH LEVEL


CLK 24
CLOCK CONTROL
DA 23
8-BIT SHIFT REGISTER
DATA OUTPUT CONTROL
21 DO
8
8
8
DATA SET
CMD DECODER
DA DATA SET
8
SENSE AMP.
EEPROM (8x12 BITS)
ADDRESS GEN.
CMD CONTROL
8
LATCHS (8-BITx12)
26 CS
22 LOAD
17 TST2
19 TST1
96
D/A CONVERTERS
20 OUT
12
BUFFERS
AUTO READ CONTROL
TIMER
POWER ON RESET
12
2,3,5-10
12,13,16,27
AO1-AO12

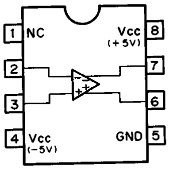
NJM072BM (JRC) FLAT PACKAGE

LOW NOISE OPERATIONAL AMPLIFIER
– TOP VIEW –


1
2
3
4
Vcc
(+15V)
8
7
6
5
VEE
(−15V)

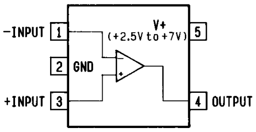
NJM360M (JRC) FLAT PACKAGE

HIGH SPEED VOLTAGE COMPARATOR\ (TTL OUTPUT)
– TOP VIEW –


1
NC
Vcc
(+5V)
8
2
7
3
6
4
Vcc
(−5V)
GND
5

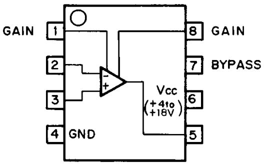
NJM2406F (JRC) FLAT PACKAGE

SINGLE COMPARATOR
– TOP VIEW –


−INPUT
1
V+
(+2.5V to +7V)
5
2
GND
+INPUT
3
4
OUTPUT

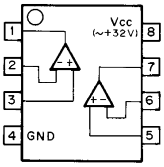
NJM386BM (JRC) FLAT PACKAGE

AUDIO POWER AMPLIFIER
– TOP VIEW –


GAIN
1
8
GAIN
2
7
BYPASS
3
Vcc
(+4 to +18V)
6
4
GND
5

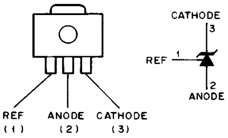
NJM2904M (JRC) FLAT PACKAGE

OPERATIONAL AMPLIFIER
– TOP VIEW –


1
Vcc
(~+32V)
8
2
7
3
6
4
GND
5

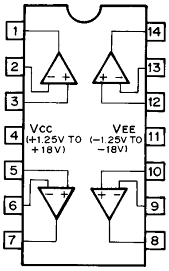
NJM431U (JRC)

ADJUSTABLE PRECISION SHUNT REGULATOR
– FRONT VIEW –


CATHODE
3
REF
1
2
ANODE
REF
(1)
ANODE
(2)
CATHODE
(3)

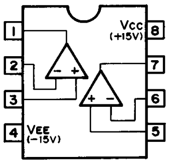
NJM3403AM (JRC) FLAT PACKAGE

QUAD OPERATIONAL AMPLIFIER
– TOP VIEW –


1
14
2
13
3
12
4
Vcc
(+1.25V TO +18V)
VEE
(−1.25V TO −18V)
11
5
10
6
9
7
8

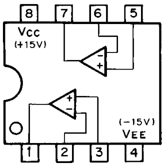
NJM4556M (JRC) FLAT PACKAGE

OPERATIONAL AMPLIFIER\ (WIDE BAND, DECOMPENSATED)
– TOP VIEW –


1
Vcc
(+15V)
8
2
7
3
6
4
VEE
(−15V)
5

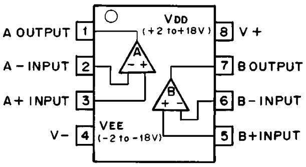
NJM4565M-A (JRC) FLAT PACKAGE

DUAL OPERATIONAL AMPLIFIER
– TOP VIEW –


8
7
6
5
Vcc
(+15V)
(–15V)
VEE
1
2
3
4

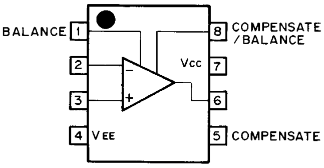
NJM4580E (JRC) FLAT PACKAGE

OPERATIONAL AMPLIFIER
– TOP VIEW –


A OUTPUT 1
A – INPUT 2
A+ INPUT 3
V– 4
VDD
(+2 to +18V)
A
B
VEE
(–2 to –18V)
8 V+
7 B OUTPUT
6 B – INPUT
5 B+INPUT

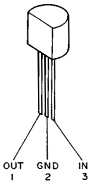
NJM5534M (JRC) FLAT PACKAGE

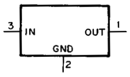
OPERATINAL AMPLIFIER
– TOP VIEW –


BALANCE 1
2
3
4 VEE
8 COMPENSATE /BALANCE
Vcc 7
6
5 COMPENSATE

NJM78L05A (JRC) +5 V (100 mA)

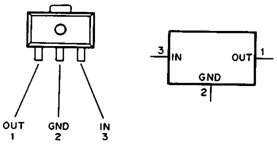
POSITIVE VOLTAGE REGULATOR
– TOP VIEW –


OUT
1
GND
2
IN
3


3
IN
OUT
1
GND
2

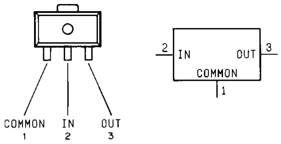
NJM78L05UA (JRC) +5 V (100 mA)

POSITIVE VOLTAGE REGULATOR
– SIDE VIEW –


OUT
1
GND
2
IN
3
3
IN
OUT
1
GND
2

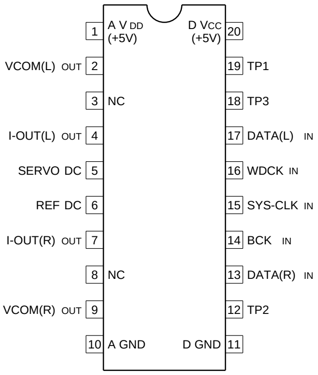
NJM79L05UA (JRC) –5 V (100 mA)

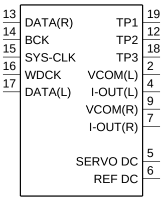
VOLTAGE REGULATOR
– SIDE VIEW –

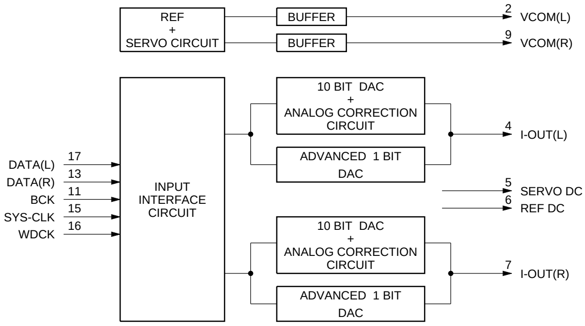

COMMON
1
IN
2
OUT
3
2
IN
OUT
3
COMMON
1

PCM69U-J (NBB)

C-MOS DUAL 18-BIT D/A CONVERTER
– TOP VIEW –

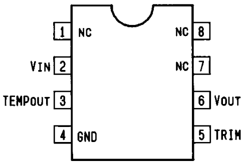

1 A VDD (+5V)
VCOM(L) OUT 2
3 NC
I-OUT(L) OUT 4
SERVO DC 5
REF DC 6
I-OUT(R) OUT 7
8 NC
VCOM(R) OUT 9
10 A GND
D Vcc (+5V) 20
19 TP1
18 TP3
17 DATA(L) IN
16 WDCK IN
15 SYS-CLK IN
14 BCK IN
13 DATA(R) IN
12 TP2
D GND 11

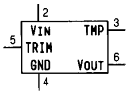

13 DATA(R)
14 BCK
15 SYS-CLK
16 WDCK
17 DATA(L)
TP1 19
TP2 12
TP3 18
VCOM(L) 2
I-OUT(L) 4
VCOM(R) 9
I-OUT(R) 7
SERVO DC 5
REF DC 6


REF + SERVO CIRCUIT
BUFFER
BUFFER
2 VCOM(L)
9 VCOM(R)
DATA(L) 17
DATA(R) 13
BCK 11
SYS-CLK 15
WDCK 16
INPUT INTERFACE CIRCUIT
10 BIT DAC + ANALOG CORRECTION CIRCUIT
ADVANCED 1 BIT DAC
4 I-OUT(L)
5 SERVO DC
6 REF DC
10 BIT DAC + ANALOG CORRECTION CIRCUIT
ADVANCED 1 BIT DAC
7 I-OUT(R)

REF-03GS (PMI)

REFERENCE/TEMPERATURE TRANSDUCER
– TOP VIEW –

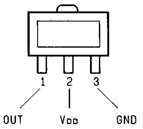

1 NC
2 VIN
3 TEMPOUT
4 GND
8 NC
7 NC
6 VOUT
5 TRIM

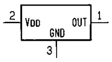

2
VIN
TMP 3
5 TRIM
GND
VOUT 6
4

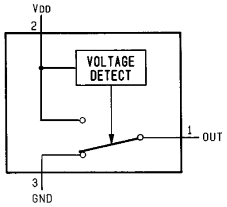
VIN ; INPUT VOLTAGE(+4.5Vto+33V)
TEMPOUT ; TEMPERATURE TRANSDUCER VOLTAGE OUTPUT
TRIMIN ; OUTPUT SIGNAL TRIMMING
VOUT ; OUTPUT VOLTAGE(+2.5V)

S-8052-ANY-NH (SEIKO I AND E)

C-MOS VOLTAGE DETECTOR
– TOP VIEW –

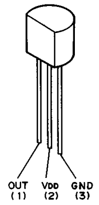

1 2 3
OUT
VDD
GND

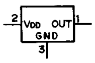

2 VDD
OUT 1
GND
3


VDD
2
VOLTAGE DETECT
1 OUT
3
GND

S-8052ALY (SEIKO I AND E) 2.60 V—2.80 V
S-8054HN (SEIKO I AND E) 3.80 V—4.20 V

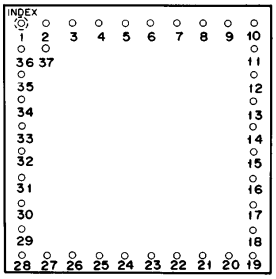
C-MOS VOLTAGE DETECTOR
– TOP VIEW –

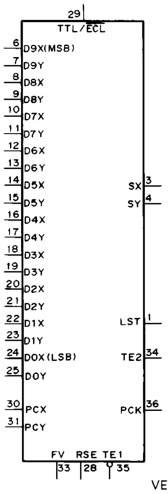

OUT (1)
VDD (2)
GND (3)


2 VDD
OUT 1
GND
3

SBX1601A (SONY)

8- OR 10-BIT PARALLEL-TO-SERIAL CONVERTER
– BOTTOM VIEW –


INDEX
1 2 3 4 5 6 7 8 9 10
36 37
11 12 13 14 15 16 17 18
35 34 33 32 31 30 29
28 27 26 25 24 23 22 21 20 19


29
TTL/ECL
6 D9X(MSB)
7 D9Y
8 D8X
9 D8Y
10 D7X
11 D7Y
12 D6X
13 D6Y
14 D5X
15 D5Y
16 D4X
17 D4Y
18 D3X
19 D3Y
20 D2X
21 D2Y
22 D1X
23 D1Y
24 D0X(LSB)
25 D0Y
30 PCX
31 PCY
SX 3
SY 4
LST 1
TE2 34
PCK 36
FV RSE TE1
33 28 35

INPUT
D9X – D0X, D9Y – D0Y ; PARALLEL DATA INPUTS
PCX, PCY ; PARALLEL CLOCK INPUTS
FV ; VCO FREQ. ADJ. INPUT
RSE ; VCO RANGE SELECT INPUT (H : HIGH RANGE)
TE1 ; TEST TERMINAL (LOW = TEST)
TTL/$\overline{\text{ECL}}$; VCC FOR INPUT LEVEL SELECT (+5V = TTL, GND = ECL)

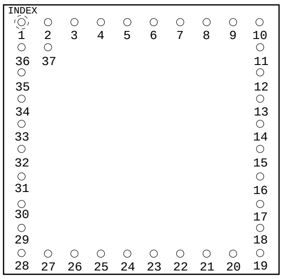
OUTPUT
LST ; PLL LOCK DETECT OUTPUT (H : LOCK)
PCK ; PARALLEL CLOCK OUTPUT
SX, SY ; SERIAL DATA OUTPUTS
TE2 ; TEST TERMINAL

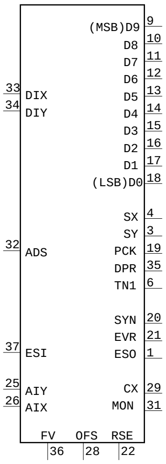
VEE1 = – 5V
VEE2 = – 3.5V

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	O	LST	11	I	D7Y	21	I	D2Y	31	I	PCY
2	–	GND	12	I	D6X	22	I	D1X	32	–	GND
3	O	SX	13	I	D6Y	23	I	D1Y	33	I	FV
4	O	SY	14	I	D5X	24	I	D0X(LSB)	34	O	TE2
5	–	GND	15	I	D5Y	25	I	D0Y	35	I	TE1
6	I	D9X(MSB)	16	I	D4X	26	–	VEE1	36	O	PCK
7	I	D9Y	17	I	D4Y	27	–	VEE2	37	–	NC
8	I	D8X	18	I	D3X	28	I	RSE			
9	I	D8Y	19	I	D3Y	29	–	TTL/$\overline{\text{ECL}}$			
10	I	D7X	20	I	D2X	30	I	PCX			

SBX1602A (SONY)

8- OR 10-BIT SERIAL-TO-PARALLEL CONVERTER
– TOP VIEW –


INDEX
1 2 3 4 5 6 7 8 9 10
36 37
11 12 13 14 15 16 17 18
35 34 33 32 31 30 29
28 27 26 25 24 23 22 21 20 19


(MSB)D9 9
D8 10
D7 11
D6 12
D5 13
D4 14
D3 15
D2 16
D1 17
(LSB)D0 18
33 DIX
34 DIY
SX 4
SY 3
PCK 19
DPR 35
TN1 6
32 ADS
SYN 20
EVR 21
ESO 1
37 ESI
25 AIY
26 AIX
CX 29
MON 31
FV OFS RSE
36 28 22

INPUT
ADS : SERIAL DATA SELECT INPUT (H : DIGITAL L : ANALOG)
AIX, AIY EQUALIZER INPUTS
DIX, DIY SERIAL DATA INPUTS
ESI : PLL SIGNAL INPUT
OFS : AGC OFFSET ADJ. INPUT
FV : VCO FREQ. ADJ. INPUT
RSE : VCO RANGE SELECT INPUT (H : HIGH RANGE)

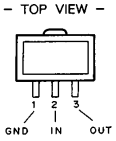
OUTPUT
CX : EQUALIZER DETECT OUTPUT (L : NO INPUT)
D9-D0 : PARALLEL DATA OUTPUTS
DPR : SERIAL DATA DETECT OUTPUT (L: NO INPUT)
ESO : TEST NODE PLL ERROR SIGNAL OUTPUT
EVR : REFERENCE VOLTAGE FOR PARALLEL OUTPUT
MON : EQUALIZER MONITOR OUTPUT
PCK : PARALLEL CLOCK OUTPUT
SX,SY : SERIAL DATA OUTPUTS
SYN : TRS DETECT OUTPUT
TN1 : TEST TERMINAL

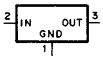
VEE1, 3 = –5V
VEE2 = –3.5

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	O	ESO	11	O	D7	21	O	EVR	31	O	MON
2	\	GND	12	O	D6	22	I	RSE	32	I	ADS
3	O	SY	13	O	D5	23	\	VEE3	33	I	DIX
4	O	SX	14	O	D4	24	\	GND	34	I	DIY
5	\	GND	15	O	D3	25	I	AIY	35	O	DPR
6	O	TN1	16	O	D2	26	I	A IX	36	I	FV
7	\	VEE1	17	O	D1	27	\	GND	37	I	ESI
8	\	VEE2	18	O	D0 (LSB)	28	I	OFS			
9	O	D9 (MSB)	19	O	PCK	29	O	CX			
10	O	D8	20	O	SYN	30	\	GND			

S-81250HG-RD (SEIKO I AND E) +5.0V FLAT PACKAGE

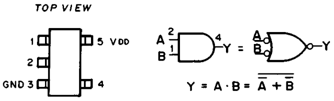
THREE TERMINAL POSITIVE VOLTAGE REGULATOR


– TOP VIEW –
1
2
3
GND
IN
OUT


2
IN
OUT
3
GND
1

TC4S81F (TOSHIBA) CHIP PACKAGE
TC7S08F (TOSHIBA) CHIP PACKAGE

C-MOS 2-INPUT AND GATE


TOP VIEW
1
2
GND 3
5 VDD
4
A
B
2
1
4
Y =
A
B
Y

$Y = A \cdot B = \overline{\bar{A} + \bar{B}}$

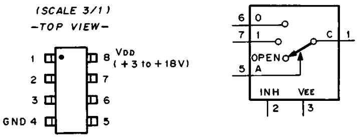
A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

0; LOW LEVEL
1; HIGH LEVEL

TYPE	V_{DD}
7S08F 7S08FU	+ 2 to + 6V
4S81F 14S81F	+ 3 to + 18V
7SH08FU	− 2 to + 5.5V

TC4W53F (TOSHIBA) CHIP PACKAGE (5.0 × 3.1)
TC4W53FU (TOSHIBA) CHIP PACKAGE

C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER

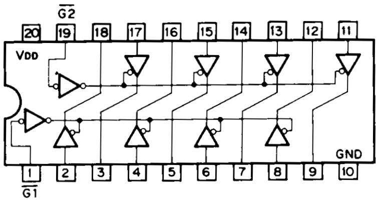

(SCALE 3/1)
–TOP VIEW–
1
2
3
GND 4
8 VDD (+3 to +18V)
7
6
5
6
7
5
0
1
OPEN
A
C
1
INH
VEE
2
3

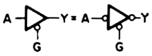
CONT. INPUT		ON CHANNEL
INH	A	
0	0	0
0	1	1
1	X	OPEN

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

SN74HCT244ANS (TI) FLAT PACKAGE
TC74VHC244F (TOSHIBA) FLAT PACKAGE
TC74VHC244FS (TOSHIBA) FLAT PACKAGE (SMALL)
TC74VHCT244FS (TOSHIBA) FLAT PACKAGE

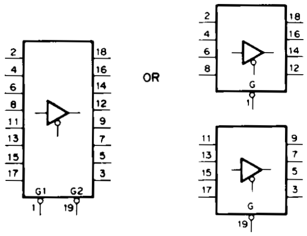
C-MOS BUS BUFFER WITH 3-STATE OUTPUTS
–TOP VIEW–


G2
20
19
18
17
16
15
14
13
12
11
VDD
GND
1
2
3
4
5
6
7
8
9
10
G1



G	A	Y
0	0	0
0	1	1
X	X	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

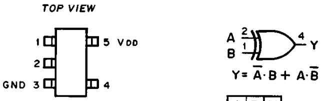

2
4
6
8
11
13
15
17
18
16
14
12
9
7
5
3
G1
G2
1
19
OR
2
4
6
8
18
16
14
12
G
1
11
13
15
17
9
7
5
3
G
19

NOTE ;

TYPE	V_{DD}
AC HC 40H	+2 to +6V
ACT BCT FCT HCT	+5V
TC74AC244 TYPE TC74VHC244	+2 to +5.5V

TC7S86F (TOSHIBA) CHIP PACKAGE
TC7S86FU (TOSHIBA) CHIP PACKAGE

C-MOS 2-INPUT EXCLUSIVE OR GATE


TOP VIEW
1
2
GND 3
5 VDD
4
A
B
2
1
4
Y

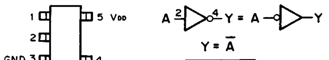
$Y = \bar{A} \cdot B + A \cdot \bar{B}$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

SC7S04F (MOTOROLA) CHIP PACKAGE
TC4S69F (TOSHIBA) CHIP PACKAGE
TC4SU69F (TOSHIBA) CHIP PACKAGE

C-MOS INVERTER
– TOP VIEW –


1
2
GND 3
5 VDD
4
A
2
4
Y = A
Y

$Y = \bar{A}$

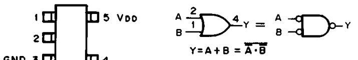
A	Y
0	1
1	0

0; LOW LEVEL
1; HIGH LEVEL

TYPE	VDD
7S04F 7SU04F	+2 to +6V
4S69F 4SU69F	+3 to +18V
7SH04FU	+2 to +5.5V

SC7S32F (MOTOROLA) CHIP PACKAGE
TC7SH32FU (TOSHIBA) CHIP PACKAGE

C-MOS 2-INPUT OR GATE
– TOP VIEW –


1
2
GND 3
5 VDD
4
A
B
2
1
4
Y =
A
B
Y

$Y = A + B = \overline{\bar{A} \cdot \bar{B}}$

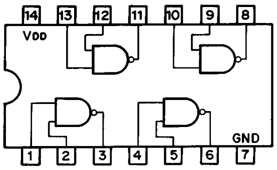
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

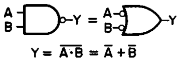
0 ; LOW LEVEL
1 ; HIGH LEVEL

TYPE	VDD
7S32F 7S32FU	+2 to +6V
4S71F	+3 to +18V
7SH32FU	−2 to +5.5V

SN74HC00ANS (TI) FLAT PACKAGE
TC74VHC00F (TOSHIBA) FLAT PACKAGE
TC74VHC00FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)

C-MOS QUAD 2-INPUT NAND GATES
– TOP VIEW –


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



$Y = \overline{A \cdot B} = \bar{A} + \bar{B}$

A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

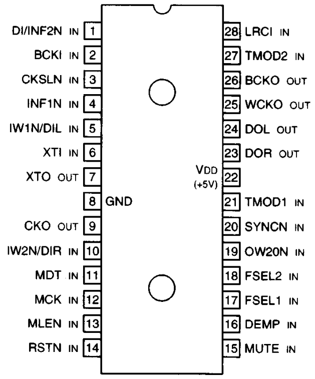
0; LOW LEVEL
1; HIGH LEVEL

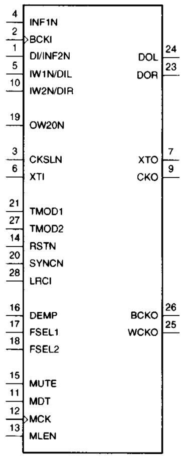
NOTE :

TYPE	VDD
TC74AC00 TYPE TC74VHC00	+2 to +5.5V
MC74HCT00N	+5V
74ACT00 TYPE	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

SM5843AS1 (NPC)

C-MOS DIGITAL FILTER
– TOP VIEW –


DI/INF2N IN 1
BCKI IN 2
CKSLN IN 3
INF1N IN 4
IW1N/DIL IN 5
XTI IN 6
XTO OUT 7
8 GND
CKO OUT 9
IW2N/DIR IN 10
MDT IN 11
MCK IN 12
MLEN IN 13
RSTN IN 14
28 LRCI IN
27 TMOD2 IN
26 BCKO OUT
25 WCKO OUT
24 DOL OUT
23 DOR OUT
VDD (+5V) 22
21 TMOD1 IN
20 SYNCN IN
19 OW20N IN
18 FSEL2 IN
17 FSEL1 IN
16 DEMP IN
15 MUTE IN


4 INF1N
2 BCKI
1 DI/INF2N
5 IW1N/DIL
10 IW2N/DIR
19 OW20N
3 CKSLN
6 XTI
21 TMOD1
27 TMOD2
14 RSTN
20 SYNCN
28 LRCI
16 DEMP
17 FSEL1
18 FSEL2
15 MUTE
11 MDT
12 MCK
13 MLEN
DOL 24
DOR 23
XTO 7
CKO 9
BCKO 26
WCKO 25

INPUT

BCKI ; INPUT BIT CLOCK
CKSLN ; INPUT FREQUENCY SELECT (H: 384fs/L: 256fs)
DEMP ; DE-EMPHASIS CONTROL (L: OFF/H: ON)
DI/INF2N ; INPUT DATA (INF1N = L)/INPUT FORMAT SELECT 2 (INF1N = H)
FSEL1, 2 ; DE-EMPHASIS SELECT

fs (Hz)		32k	44.1k	48k	TEST MODE
SETTING	FSEL1	H	L	L	H
	FSEL2	H	L	H	L

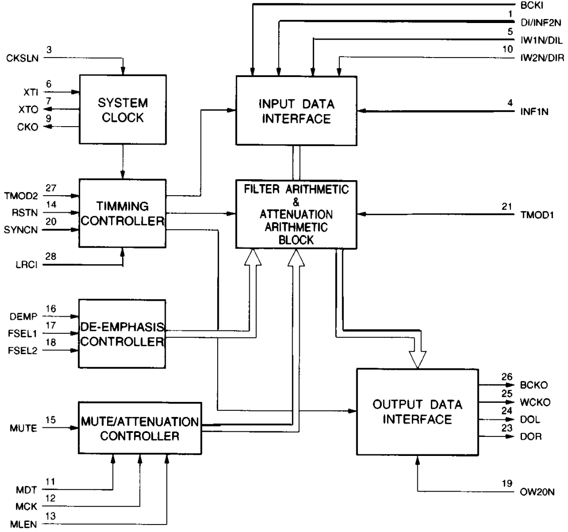
INF1N ; INPUT FORMAT SELECT 1
IW1N/DIL ; INPUT WORD LENGTH 1 (INF1N = L)/Lch DATA INPUT (TNF1N = H)
IW2N/DIR ; INPUT WORD LENGTH 2 (INF1N = L)/Rch DATA INPUT (TNF1N = H)
LRCI ; SAMPLE RATE CLOCK (fs)
MCK ; ATTENUATION BIT CLOCK
MDT ; ATTENUATION SERIAL DATA
MLEN ; ATTENUATION LATCH CLOCK
MUTE ; MUTE CONTROL
OW20N ; OUTPUT WORD LENGTH

OUTPUT WORD LENGTH (BIT)	18	20
OW20N	H	L

RSTN ; SYSTEM RESET (L: RESET/H: NORMAL)
SYNCN ; SYNC MODE SELECT (L: EXECUTION SYNC MODE/H: JITTER FREE MODE)
TMOD1 ; DITHER ON/OFF SELECT (L: ON/H: OFF)
TMOD2 ; FILTER CHARACTER SELECT
XTI ; OSCILLATOR INPUT

OUTPUT

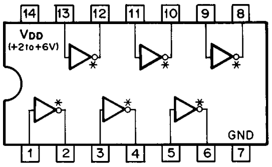
BCKO ; OUTPUT BIT CLOCK
CKO ; OSCILLATOR OUTPUT CLOCK
DOL ; Lch DATA
DOR ; Rch DATA
WCKO ; OUTPUT WORD CLOCK
XTO ; OSCILLATOR OUTPUT

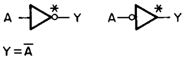

2 BCKI
1 DI/INF2N
5 IW1N/DIL
10 IW2N/DIR
CKSLN 3
XTI 6
XTO 7
CKO 9
SYSTEM CLOCK
INPUT DATA INTERFACE
4 INF1N
TMOD2 27
RSTN 14
SYNCN 20
LRCI 28
TIMMING CONTROLLER
FILTER ARITHMETIC & ATTENUATION ARITHMETIC BLOCK
21 TMOD1
DEMP 16
FSEL1 17
FSEL2 18
DE-EMPHASIS CONTROLLER
OUTPUT DATA INTERFACE
26 BCKO
25 WCKO
24 DOL
23 DOR
MUTE 15
MUTE/ATTENUATION CONTROLLER
MDT 11
MCK 12
MLEN 13
19 OW20N

http://getMANUAL.com

SN74HC05ANS (TI) FLAT PACKAGE

C-MOS HEX INVERTER WITH OPEN-DRAIN
– TOP VIEW –


14
13
12
11
10
9
8
VDD
(+2 to +6V)
GND
1
2
3
4
5
6
7



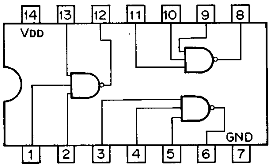
Y = $\overline{A}$

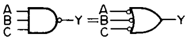
A	Y
0	1
1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL
* ; OPEN DRAIN

SN74HC10ANS (TI) FLAT PACKAGE

C-MOS 3-INPUT NAND GATE
– TOP VIEW –


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



Y = $\overline{ABC} = \overline{A} + \overline{B} + \overline{C}$

A	B	C	Y
0	0	0	1
0	0	1	1
0	1	0	1
0	1	1	1
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	0

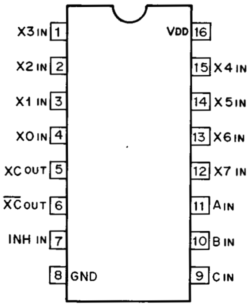
0 ; LOW LEVEL
1 ; HIGH LEVEL

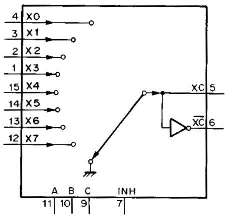
NOTE :

TYPE	VDD
TC40H	+ 2 to + 8V
OTHERS	+ 2 to + 6V

SN74HC151ANS (TI) FLAT PACKAGE

C-MOS 8-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
– TOP VIEW –


X3 IN 1
X2 IN 2
X1 IN 3
X0 IN 4
XC OUT 5
$\overline{XC}$ OUT 6
INH IN 7
8 GND
VDD 16
15 X4 IN
14 X5 IN
13 X6 IN
12 X7 IN
11 A IN
10 B IN
9 C IN


4 X0
3 X1
2 X2
1 X3
15 X4
14 X5
13 X6
12 X7
XC 5
$\overline{XC}$ 6
A B C
INH
11 10 9
7

CONTROL INPUTS				ON CHANNEL
INH	C	B	A	
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7
1	X	X	X	GND

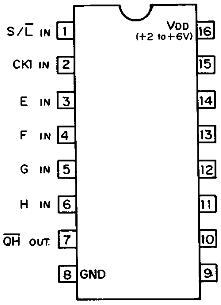
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

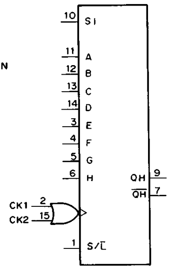
NOTE :

TYPE	VDD
HC	+2 to +6V
AC/VHC	+2 to +5.5V
HCT/ACT/FCT	+5V

SN74HC165ANS (TI) FLAT PACKAGE
TC74VHC165FS (TOSHIBA) FLAT PACKAGE

C-MOS SERIAL- OR PARALLEL-INPUT SHIFT REGISTER
– TOP VIEW –

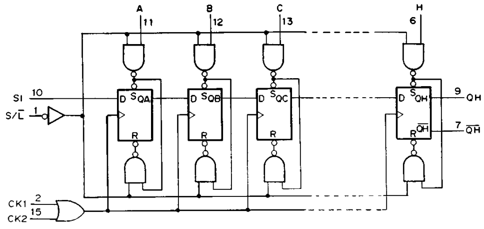

S/$\overline{L}$ IN 1
CK1 IN 2
E IN 3
F IN 4
G IN 5
H IN 6
$\overline{QH}$ OUT 7
8 GND
VDD (+2 to +6V) 16
15 CK2 IN
14 D IN
13 C IN
12 B IN
11 A IN
10 SI IN
9 QH OUT


10 SI
11 A
12 B
13 C
14 D
3 E
4 F
5 G
6 H
CK1 2
CK2 15
1 S/$\overline{L}$
QH 9
$\overline{QH}$ 7

SI ; SERIAL DATA IN
A–H ; PARALLEL DATA IN
CK1,CK2 ; CLOCK IN (_↑‾)
S/$\overline{L}$; SHIFT/LOAD IN
QH $\overline{QH}$; 8th BIT OUT (COMPLEMENTALY)

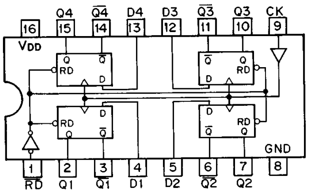
INPUTS				CONTENTS		OUTPUT	OPERATION
S/$\overline{L}$	CK1+CK2	SI	A······H	QA	QB····	QH	
0	X	X	a······h	a	b·····	h	PARALLEL LOAD
1	_↑‾	0	X	0	QAo···	QGo	RIGHT SHIFT
1	_↑‾	1	X	1	QAo···	QGo	
1	‾↓_	X	X	QAo	QBo···	QHo	NO COUNT
1	0	X	X	QAo	QBo···	QHo	
1	1	X	X	QAo	QBo···	QHo	

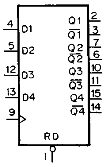
0 ; LOW LEVEL 1 ; HIGH LEVEL X ; DON'T CARE
a – h ; LEVEL OF INPUTS A–H
QAo–QHo ; LEVEL OF QA–QH BEFORE THE INDICATED INPUT CONDITIONS WERE ESTABLISHED


A 11
B 12
C 13
H 6
SI 10
S/$\overline{L}$ 1
D S QA
D S QB
D S QC
D S QH
R
9 QH
7 $\overline{QH}$
CK1 2
CK2 15

SN74HC175ANS (TI) FLAT PACKAGE
TC74VHC175FS (TOSHIBA) FLAT PACKAGE

C-MOS QUAD D-TYPE FLIP-FLOPS WITH RESET
– TOP VIEW –


Q4 $\overline{Q4}$ D4 D3 $\overline{Q3}$ Q3 CK
16 15 14 13 12 11 10 9
VDD
GND
1 2 3 4 5 6 7 8
$\overline{RD}$ Q1 $\overline{Q1}$ D1 D2 $\overline{Q2}$ Q2


4 D1
5 D2
12 D3
13 D4
9
RD
1
Q1 2
$\overline{Q1}$ 3
Q2 7
$\overline{Q2}$ 6
Q3 10
$\overline{Q3}$ 11
Q4 15
$\overline{Q4}$ 14

RD	CK	D	Q	$\overline{Q}$
0	X	X	0	1
1	_↑‾	1	1	0
1	_↑‾	0	0	1
1	0	X	Q0	$\overline{Q0}$

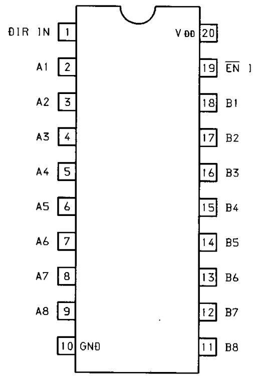
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
Q0 ; NO CHANGE
$\overline{Q0}$; NO CHANGE

NOTE :

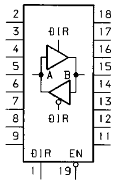
TYPE	VDD
AC TYPE	+2 to +5.5 V
74ACT175 TYPE	+4.5V to 5.5 V
OTHER TYPES	+2 to +6 V

SN74HC245ANS (TI) FLAT PACKAGE
SN74HCT245ANS (TI) FLAT PACKAGE
SN74LVT245NS (TI) FLAT PACKAGE
TC74VHC245F (TOSHIBA) FLAT PACKAGE
TC74VHC245FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)

C-MOS BILATERAL BUS TRANSCEIVERS WITH 3-STATE OUTPUTS
– TOP VIEW –



ĐIR IN 1
A1 2
A2 3
A3 4
A4 5
A5 6
A6 7
A7 8
A8 9
10 GND
VDD 20
19 EN IN
18 B1
17 B2
16 B3
15 B4
14 B5
13 B6
12 B7
11 B8



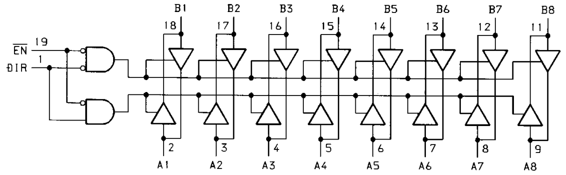
ĐIR
A
B
ĐIR
ĐIR
EN
1
19

EN	ĐIR	OPERATION
0	0	B to A
0	1	A to B
1	X	HI-Z

0:LOW LEVEL
1:HIGH LEVEL
X:DON'T CARE
HI-Z:HIGH IMPEDANCE

NOTE:

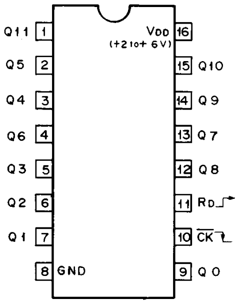
TYPE	VDD
AC HC	+2 to +6V
ABT ACT BCT HCT	+5V
TC74AC245F TC74AC245P TC74VHC245	+2 to +5.5V
74LVT	+2.7 to +3.6V



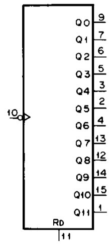
B1 B2 B3 B4 B5 B6 B7 B8
18 17 16 15 14 13 12 11
EN 19
ĐIR 1
2 3 4 5 6 7 8 9
A1 A2 A3 A4 A5 A6 A7 A8

SN74HC4040ANS (TI) FLAT PACKAGE

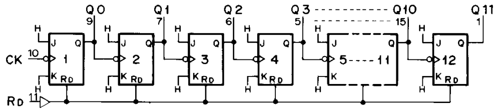
C-MOS 12-STAGE RIPPLE CARRY BINARY COUNTER/DRIVER
– TOP VIEW –



Q11 1
Q5 2
Q4 3
Q6 4
Q3 5
Q2 6
Q1 7
8 GND
VDD (+2 to +6V) 16
15 Q10
14 Q9
13 Q7
12 Q8
11 RD
10 CK
9 Q0



Q0 9
Q1 7
Q2 6
Q3 5
Q4 3
Q5 2
Q6 4
Q7 13
Q8 12
Q9 14
Q10 15
Q11 1
10
RD
11



Q0 Q1 Q2 Q3 Q10 Q11
9 7 6 5 15 1
CK 10
RD 11
H
J Q
K RD
1 2 3 4 5----11 12

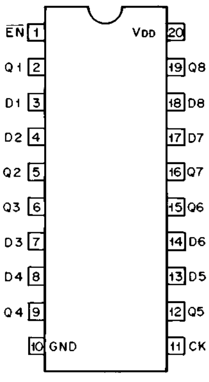
COUNT	Q11	Q10	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q2	Q1	Q0
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	1	0
3	0	0	0	0	0	0	0	0	0	0	1	1
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
4095	1	1	1	1	1	1	1	1	1	1	1	1

RD	Q11·········Q0
1	ALL LOW
0	COUNT

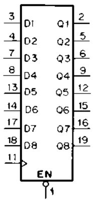
0; LOW LEVEL
1; HIGH LEVEL

SN74HC374ANS (TI) FLAT PACKAGE
TC74VHC374FS (TOSHIBA) FLAT PACKAGE

C-MOS 3-STATE OCTAL D-TYPE FLIP-FLOP
– TOP VIEW –



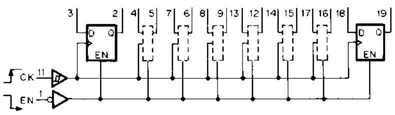
EN 1
Q1 2
D1 3
D2 4
Q2 5
Q3 6
D3 7
D4 8
Q4 9
10 GND
VDD 20
19 Q8
18 D8
17 D7
16 Q7
15 Q6
14 D6
13 D5
12 Q5
11 CK



3 D1 Q1 2
4 D2 Q2 5
7 D3 Q3 6
8 D4 Q4 9
13 D5 Q5 12
14 D6 Q6 15
17 D7 Q7 16
18 D8 Q8 19
11
EN
1

INPUTS			OUT
EN	D	CK	Q
0	1	↑	1
0	0	↑	0
0	X	0	Q_0
1	X	X	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE



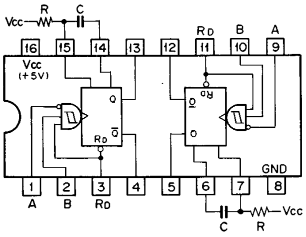
3 2 4 5 7 6 8 9 13 12 14 15 17 16 18 19
D Q
EN
CK 11
EN 1

NOTE :

TYPE	VDD
74AC/74HC	+2 to +6V
74ACT/74BCT/74FCT /74HCT	+5V
74VHC	+2 to +5.5V

SN74LS221NS (TI) FLAT PACKAGE

TTL MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT
– TOP VIEW –

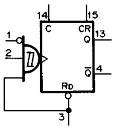


R C
Vcc
RD B A
16 15 14 13 12 11 10 9
Vcc (+5V)
Q
RD Q
GND
1 2 3 4 5 6 7 8
A B RD
C R
Vcc

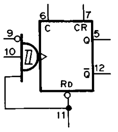
INPUTS			OUTPUTS	
RD	A	B	Q	$\overline{Q}$
0	X	X	0	1
X	1	X	0	1
X	X	0	0	1
1	0	↑	⎍	⊔
1	↓	1	⎍	⊔
↑	0	1	⎍	⊔

0;LOW LEVEL
1;HIGH LEVEL
X;DON'T CARE

OUTPUT PULSE WIDTH = 0.7CR



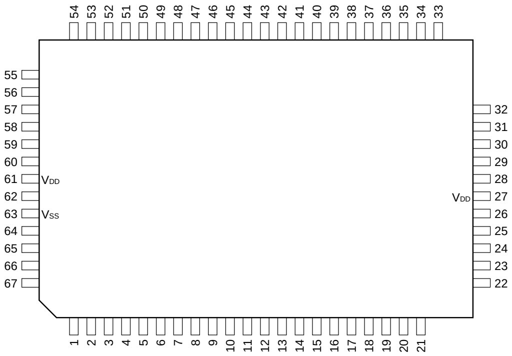
14 15
C CR
1
2
13
Q
Q 4
RD
3

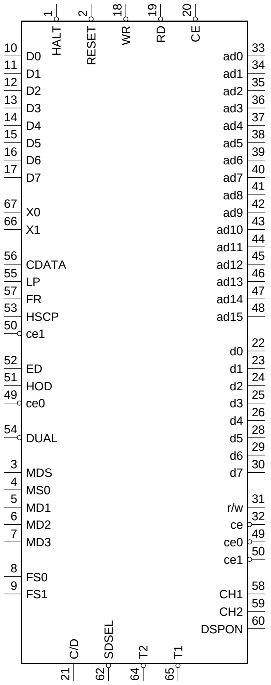


6 7
C CR
9
10
5
Q
Q 12
RD
11

T6963C (TOSHIBA)

C-MOS DOT MATRIX LCD CONTROLLER
– TOP VIEW –


54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33
55 56 57 58 59 60 61 62 63 64 65 66 67
32 31 30 29 28 27 26 25 24 23 22
VDD
VSS
VDD
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

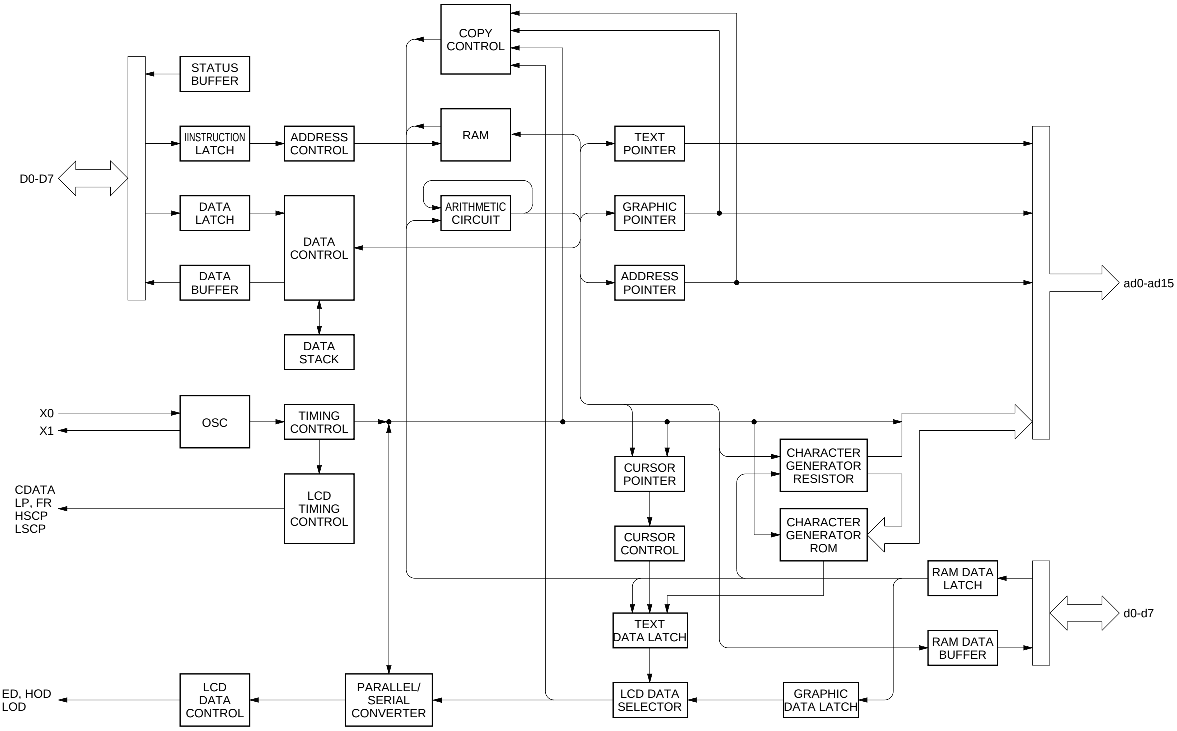

1 HALT
2 RESET
18 WR
19 RD
20 CE
10 D0
11 D1
12 D2
13 D3
14 D4
15 D5
16 D6
17 D7
67 X0
66 X1
56 CDATA
55 LP
57 FR
53 HSCP
50 ce1
52 ED
51 HOD
49 ce0
54 DUAL
3 MDS
4 MS0
5 MD1
6 MD2
7 MD3
8 FS0
9 FS1
33 ad0
34 ad1
35 ad2
36 ad3
37 ad4
38 ad5
39 ad6
40 ad7
41 ad8
42 ad9
43 ad10
44 ad11
45 ad12
46 ad13
47 ad14
48 ad15
22 d0
23 d1
24 d2
25 d3
26 d4
28 d5
29 d6
30 d7
31 r/w
32 ce
49 ce0
50 ce1
58 CH1
59 CH2
60 DSPON
21 C/D
62 SDSEL
64 T2
65 T1

INPUT
C/D ; COMMAND/DATA SELECT
CE ; CHIP ENABLE
DUAL ; DUAL LCD SELECT
FS0, FS1 ; FONT SELECT
HALT ; HALT
MDS ; DISPLAY COLUMN SELECT
MD0-3 ; DISPLAY COLUMN SELECT
RD ; READ
RESET ; RESET
SDSEL ; INPUT DATA SELECT (NORMAL/DUAL)
T1, T2 ; TEST1, 2
WR ; WRITE
X1 ; CRYSTAL OSCILLATOR

OUTPUT
ad0-ad15 ; ADDRESS BUS
CDATA ; SYNC
ce, ce0, ce1 ; MEMORY CHIP ENABLE
CH1, CH2 ; CHECK1, 2
DSPON ; EXTERNAL DC/DC CONVERTER CONTROL
ED ; SERIAL DATA FOR LCD
FR ; FRAME SIGNAL
HOD ; SERIAL DATA FOR UPPER LCD
HSCP ; SHIFT CLOCK PULSE
LP ; LATCH PULSE/CLOCK PULSE
r/w ; MEMORY READ/WRITE
X0 ; CRYSTAL OSCILLATOR

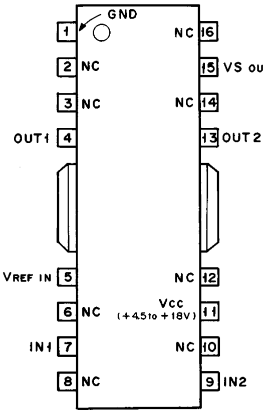
INPUT/OUTPUT
D0-D7 ; DATA BUS
d0-d7 ; MEMORY DATA BUS

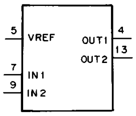
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	$\overline{\text{HALT}}$	18	I	$\overline{\text{WR}}$	35	O	ad2	52	O	ED
2	I	$\overline{\text{RESET}}$	19	I	$\overline{\text{RD}}$	36	O	ad3	53	O	HSCP
3	I	MDS	20	I	$\overline{\text{CE}}$	37	O	ad4	54	I	$\overline{\text{DUAL}}$
4	I	MD0	21	I	C/D	38	O	ad5	55	O	LP
5	I	MD1	22	I/O	d0	39	O	ad6	56	O	CDATA
6	I	MD2	23	I/O	d1	40	O	ad7	57	O	FR
7	I	MD3	24	I/O	d2	41	O	ad8	58	O	CH1
8	I	FS0	25	I/O	d3	42	O	ad9	59	O	CH2
9	I	FS1	26	I/O	d4	43	O	ad10	60	O	DSPON
10	I/O	D0	27	–	V_{DD}	44	O	ad11	61	–	V_{DD}
11	I/O	D1	28	I/O	d5	45	O	ad12	62	I	SDSEL
12	I/O	D2	29	I/O	d6	46	O	ad13	63	–	Vss
13	I/O	D3	30	I/O	d7	47	O	ad14	64	I	$\overline{\text{T2}}$
14	I/O	D4	31	O	r/w	48	O	ad15	65	I	$\overline{\text{T1}}$
15	I/O	D5	32	O	ce	49	O	ce0	66	I	X1
16	I/O	D6	33	O	ad0	50	O	ce1	67	O	X0
17	I/O	D7	34	O	ad1	51	O	HOD	–	–	–


COPY CONTROL
STATUS BUFFER
IINSTRUCTION LATCH
ADDRESS CONTROL
RAM
TEXT POINTER
D0-D7
DATA LATCH
ARITHMETIC CIRCUIT
GRAPHIC POINTER
DATA CONTROL
DATA BUFFER
ADDRESS POINTER
ad0-ad15
DATA STACK
X0
X1
OSC
TIMING CONTROL
CHARACTER GENERATOR RESISTOR
CURSOR POINTER
CDATA
LP, FR
HSCP
LSCP
LCD TIMING CONTROL
CHARACTER GENERATOR ROM
CURSOR CONTROL
RAM DATA LATCH
d0-d7
TEXT DATA LATCH
RAM DATA BUFFER
ED, HOD
LOD
LCD DATA CONTROL
PARALLEL/ SERIAL CONVERTER
LCD DATA SELECTOR
GRAPHIC DATA LATCH

TA7291F (TOSHIBA) FLAT PACKAGE

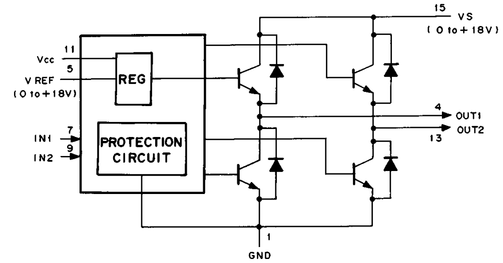
DC MOTOR FULLBRIDGE DRIVER
– TOP VIEW –


GND
1
NC 16
2 NC
15 VS OUT
3 NC
NC 14
OUT1 4
13 OUT2
VREF IN 5
NC 12
6 NC
Vcc (+4.5 to +18V) 11
IN1 7
NC 10
8 NC
9 IN2


5 VREF
7 IN1
9 IN2
OUT1 4
OUT2 13

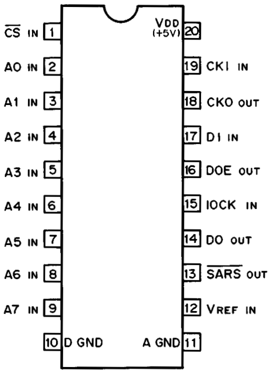
INPUT		OUTPUT		MODE
IN1	IN2	OUT1	OUT2	
0	0	HI-Z	HI-Z	STOP
1	0	1	0	CW/CCW
0	1	0	1	CCW/CW
1	1	0	0	BRAKE

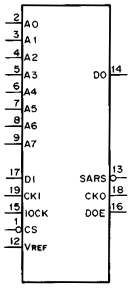
0 ; LOW LEVEL
1 ; HIGH LEVEL
HI-Z; HIGH IMPEDANCE


Vcc 11
V REF 5
(0 to +18V)
IN1 7
IN2 9
REG
PROTECTION CIRCUIT
15 VS
(0 to +18V)
4 OUT1
OUT2 13
1
GND

TC35080P (TOSHIBA)

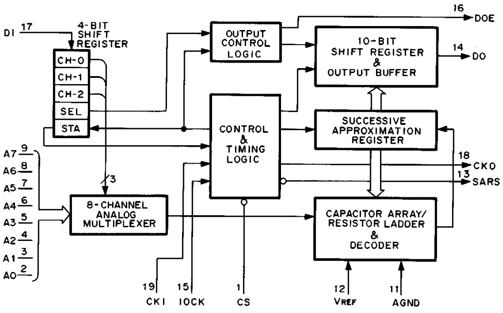
C-MOS 10-BIT SERIAL I/O A/D CONVERTER
– TOP VIEW –


CS IN 1
A0 IN 2
A1 IN 3
A2 IN 4
A3 IN 5
A4 IN 6
A5 IN 7
A6 IN 8
A7 IN 9
10 D GND
VDD (+5V) 20
19 CKI IN
18 CKO OUT
17 DI IN
16 DOE OUT
15 IOCK IN
14 DO OUT
13 SARS OUT
12 VREF IN
A GND 11


2 A0
3 A1
4 A2
5 A3
6 A4
7 A5
8 A6
9 A7
17 DI
19 CKI
15 IOCK
1 CS
12 VREF
DO 14
SARS 13
CKO 18
DOE 16

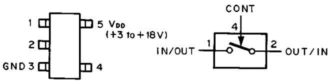
INPUT
A0 – A7 ; ANALOG
CKI ; CLOCK
CS ; CHIP SELECT
DI ; DATA
IOCK ; I/O CLOCK
VREF ; REFERENCE VOLTAGE

OUTPUT
CKO ; CLOCK
DO ; DATA
DOE ; DATA OUTPUT ENABLE
SARS ; SUCCESSIVE APPROXIMATION REGISTER STATUS


DI 17
4-BIT SHIFT REGISTER
CH-0
CH-1
CH-2
SEL
STA
OUTPUT CONTROL LOGIC
16 DOE
10-BIT SHIFT REGISTER & OUTPUT BUFFER
14 DO
CONTROL & TIMING LOGIC
SUCCESSIVE APPROXIMATION REGISTER
18 CKO
13 SARS
A7 9
A6 8
A5 7
A4 6
A3 5
A2 4
A1 3
A0 2
3
8-CHANNEL ANALOG MULTIPLEXER
CAPACITOR ARRAY/ RESISTOR LADDER & DECODER
19 CKI
15 IOCK
1 CS
12 VREF
11 AGND

TC4S66F (TOSHIBA) CHIP PACKAGE

C-MOS BILATERAL ANALOG SWITCH
– TOP VIEW –

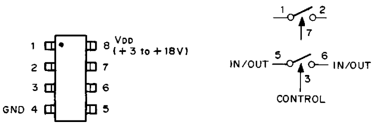

1
2
GND 3
5 VDD (+3 to +18V)
4
CONT
4
IN/OUT 1
2 OUT/IN

CONT	SWITCH
0	OFF
1	ON

0 ; LOW LEVEL
1 ; HIGH LEVEL

TC4W66FU (TOSHIBA) CHIP PACKAGE

C-MOS DUAL BILATERAL SWITCH
– TOP VIEW –

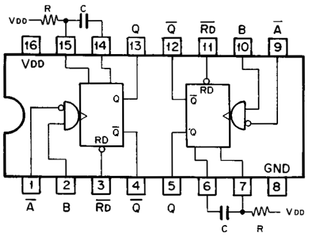

1
2
3
GND 4
8 VDD (+3 to +18V)
7
6
5
1 2
7
IN/OUT 5
6 IN/OUT
3
CONTROL

CONTROL	SWITCH
0	OFF
1	ON

0 ; LOW LEVEL
1 ; HIGH LEVEL

TC74HC123AF (TOSHIBA) FLAT PACKAGE
TC74VHC123AF (TOSHIBA) FLAT PACKAGE
TC74VHC123AFS (TOSHIBA) FLAT PACKAGE

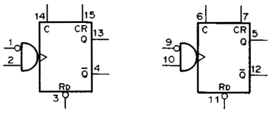
C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATORS
– TOP VIEW –


R
C
VDD
Q
Q̅
R̅D̅
B
A̅
16
15
14
13
12
11
10
9
VDD
Q
RD
Q̅
RD
Q̅
Q
GND
1
2
3
4
5
6
7
8
A̅
B
R̅D̅
Q̅
Q
C
R
VDD

INPUT			OUTPUT	
RD	A	B	Q	Q̅
0	X	X	0	1
1	1	X	0	1
1	X	0	0	1
1	0	↑	⊓	⊔
1	↓	1	⊓	⊔
↑	0	1	⊓	⊔

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

OUTPUT PULSE WIDTH = 0.46CR

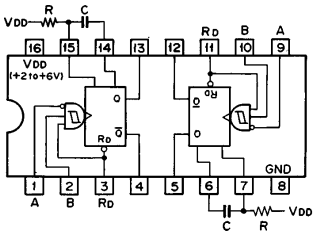

14
15
C
CR
Q
13
1
2
Q̅
4
RD
3
6
7
C
CR
Q
5
9
10
Q̅
12
RD
11

NOTE :

TYPE	VDD
TC74HCT123AF	+5V
OTHER TYPES	+2 to +6V

TC74HC221AF (TOSHIBA) FLAT PACKAGE
TC74VHC221AF (TOSHIBA) FLAT PACKAGE

C-MOS MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT
– TOP VIEW –


R
C
VDD
RD
B
A
16
15
14
13
12
11
10
9
VDD
(+2 to +6V)
Q
RD
Q̅
Q̅
RD
Q
GND
1
2
3
4
5
6
7
8
A
B
RD
C
R
VDD

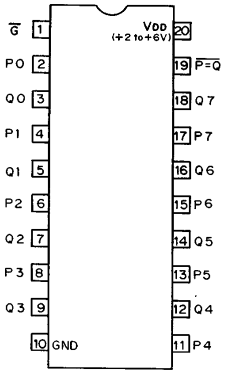
INPUTS			OUTPUTS	
RD	A	B	Q	Q̅
0	X	X	0	1
X	1	X	0	1
X	X	0	0	1
1	0	↑	⊓	⊔
1	↓	1	⊓	⊔
↑	0	1	⊓	⊔

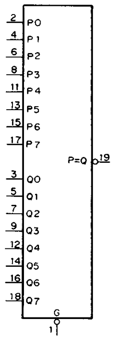
0;LOW LEVEL
1;HIGH LEVEL
X;DON'T CARE

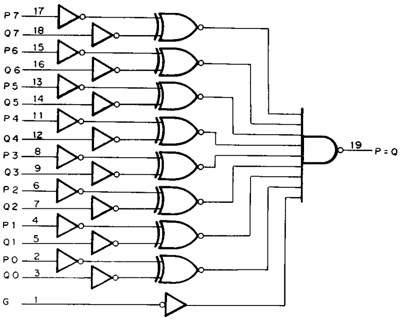
OUTPUT PULSE WIDTH = 0.7CR

TC74HC688AF (TOSHIBA) FLAT PACKAGE

C-MOS 8-BIT EQUALITY DETECTOR
– TOP VIEW –


G̅ 1
P0 2
Q0 3
P1 4
Q1 5
P2 6
Q2 7
P3 8
Q3 9
10 GND
VDD (+2 to +6V) 20
19 P̅=̅Q̅
18 Q7
17 P7
16 Q6
15 P6
14 Q5
13 P5
12 Q4
11 P4


2 P0
4 P1
6 P2
8 P3
11 P4
13 P5
15 P6
17 P7
3 Q0
5 Q1
7 Q2
9 Q3
12 Q4
14 Q5
16 Q6
18 Q7
P=Q 19
G
1

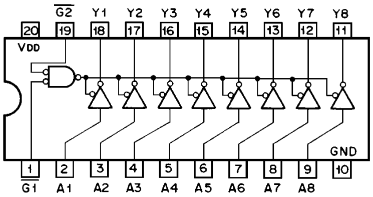

P7 17
Q7 18
P6 15
Q6 16
P5 13
Q5 14
P4 11
Q4 12
P3 8
Q3 9
P2 6
Q2 7
P1 4
Q1 5
P0 2
Q0 3
G 1
19 P=Q

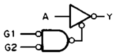
INPUTS		OUTPUT
P ,Q	G	P = Q
P=Q	0	0
P>Q	0	1
P<Q	0	1
X	1	1

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

TC74HCT540AF (TOSHIBA) FLAT PACKAGE

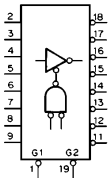
C-MOS 3-STATE OCTAL INVERTING BUFFERS/DRIVERS
– TOP VIEW –


G̅2̅
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
20
19
18
17
16
15
14
13
12
11
VDD
GND
1
2
3
4
5
6
7
8
9
10
G̅1̅
A1
A2
A3
A4
A5
A6
A7
A8



G1	G2	A	Y
0	0	0	1
0	0	1	0
1	X	X	HI-Z
X	1	X	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

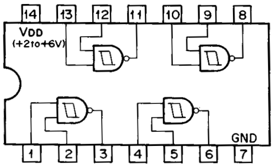

2
3
4
5
6
7
8
9
18
17
16
15
14
13
12
11
G1
G2
1
19

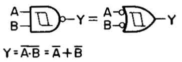
NOTE :

TYPE	VDD
HC	+2 to +6V
AC/VHC	+2 to +5.5V
HCT/ACT/VHCT	+5V

TC74VHC132FS (TOSHIBA) FLAT PACKAGE

C-MOS 2-INPUT NAND SCHMITT TRIGGER
– TOP VIEW –


14
13
12
11
10
9
8
VDD (+2to+6V)
GND
1
2
3
4
5
6
7



$Y = \overline{A \cdot B} = \overline{A} + \overline{B}$

A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

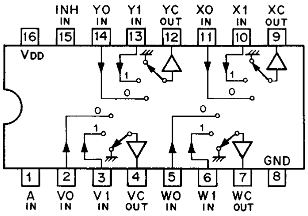
0 ; LOW LEVEL
1 ; HIGH LEVEL

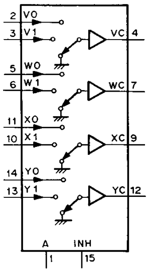
NOTE :

TYPE	VDD
HC	+2 to +6V
VHC	+2 to +5.5V

TC74VHC157FS (TOSHIBA) FLAT PACKAGE (SMALL)

C-MOS QUAD 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
– TOP VIEW –


INH IN
YO IN
Y1 IN
YC OUT
XO IN
X1 IN
XC OUT
16
15
14
13
12
11
10
9
VDD
1
0
GND
1
2
3
4
5
6
7
8
A IN
VO IN
V1 IN
VC OUT
WO IN
W1 IN
WC OUT


2 VO
3 V1
VC 4
5 WO
6 W1
WC 7
11 XO
10 X1
XC 9
14 YO
13 Y1
YC 12
A
INH
1
15

NOTE :

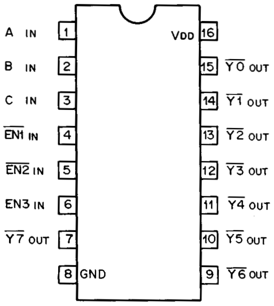
TYPE	VDD
74ACT／74FCT	+5V
TC74AC157P TC74AC157	+2 to +5.5V
TC40H	+2 to +8V
OTHER TYPES	+2 to +6V

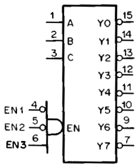
CONT. IN		ON CHANNEL
INH	A	
0	0	0
0	1	1
1	X	GND

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

TC74VHC138FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)

C-MOS 3-TO-8 LINE DECODER/DEMULTIPLEXER
– TOP VIEW –


A IN 1
B IN 2
C IN 3
$\overline{EN1}$ IN 4
$\overline{EN2}$ IN 5
EN3 IN 6
$\overline{Y7}$ OUT 7
8 GND
VDD 16
15 $\overline{Y0}$ OUT
14 $\overline{Y1}$ OUT
13 $\overline{Y2}$ OUT
12 $\overline{Y3}$ OUT
11 $\overline{Y4}$ OUT
10 $\overline{Y5}$ OUT
9 $\overline{Y6}$ OUT


1 A
2 B
3 C
EN1 4
EN2 5
EN3 6
EN
YO 15
Y1 14
Y2 13
Y3 12
Y4 11
Y5 10
Y6 9
Y7 7

NOTE :

TYPE	VDD
74HCT138 TYPE	+5V
74ACT138 TYPE	+4.5 to +5.5V
TC74AC138 TYPE TC74VHC138	+2 to +5.5V
OTHER TYPES	+2 to +6V

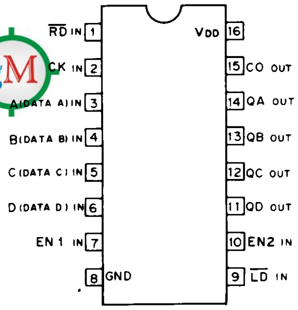
INPUTS				OUTPUTS							
EN	C	B	A	Y7	Y6	Y5	Y4	Y3	Y2	Y1	YO
0	X	X	X	1	1	1	1	1	1	1	1
1	0	0	0	1	1	1	1	1	1	1	0
1	0	0	1	1	1	1	1	1	1	0	1
1	0	1	0	1	1	1	1	1	0	1	1
1	0	1	1	1	1	1	1	0	1	1	1
1	1	0	0	1	1	1	0	1	1	1	1
1	1	0	1	1	1	0	1	1	1	1	1
1	1	1	0	1	0	1	1	1	1	1	1
1	1	1	1	0	1	1	1	1	1	1	1

$EN = \overline{EN1} \cdot \overline{EN2} \cdot EN3$

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

TC74VHC163F (TOSHIBA) FLAT PACKAGE

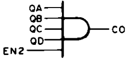
C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER
– TOP VIEW –


$\overline{RD}$ IN 1
CK IN 2
A(DATA A) IN 3
B(DATA B) IN 4
C(DATA C) IN 5
D(DATA D) IN 6
EN 1 IN 7
8 GND
VDD 16
15 CO OUT
14 QA OUT
13 QB OUT
12 QC OUT
11 QD OUT
10 EN2 IN
9 $\overline{LD}$ IN

MODE SELECTION

CONTROL INPUTS				MODE
RD	LD	EN1	EN2	
0	X	X	X	RESET (SYNCHRONOUS)
1	0	X	X	PRESET (SYNCHRONOUS)
1	1	0	X	NO COUNT
1	1	X	0	NO COUNT
1	1	1	1	COUNT

CARRY OUTPUT "CO"


QA
QB
QC
QD
EN2
CO

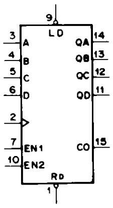
CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS "15".

NOTE :

TYPE	VDD
HC	+2 to +6V
AC/VHC	+2 to +5.5V
HCT/ACT/FCT	+5V

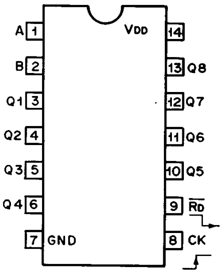
COUNT SEQUENCE

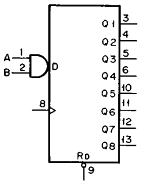
COUNT	OUTPUTS			
	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1


9
LD
3 A
4 B
5 C
6 D
2
7 EN1
10 EN2
RD
1
QA 14
QB 13
QC 12
QD 11
CO 15

TC74VHC164F (TOSHIBA) FLAT PACKAGE

C-MOS 8-BIT SERIAL-IN/PARALLEL-OUT SHIFT REGISTER
– TOP VIEW –


A 1
B 2
Q1 3
Q2 4
Q3 5
Q4 6
7 GND
VDD 14
13 Q8
12 Q7
11 Q6
10 Q5
9 RD
8 CK

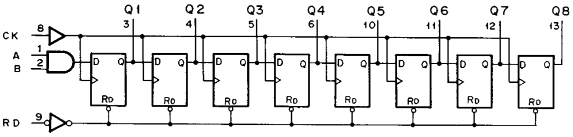

A 1
B 2
D
8
RD 9
Q1 3
Q2 4
Q3 5
Q4 6
Q5 10
Q6 11
Q7 12
Q8 13

INPUTS				OUTPUTS			
RD	CK	A	B	Q1	Q2	----	Q8
0	X	X	X	0	0	0	0
1	0	X	X	Q1o	Q2o	----	Q8o
1	↑	1	1	1	Q1n	----	Q7n
1	↑	0	X	0	Q1n	----	Q7n
1	↑	X	0	0	Q1n	----	Q7n

0;LOW LEVEL
1;HIGH LEVEL
X;DON'T CARE

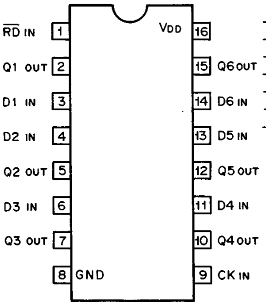
NOTE :

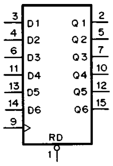
TYPE	VDD
AC/VHC	+2 to +5.5V
HC	+2 to +6V
HCT	+5V


CK 8
A 1
B 2
RD 9
Q1 3
Q2 4
Q3 5
Q4 6
Q5 10
Q6 11
Q7 12
Q8 13
D Q
RD

TC74VHC174F (TOSHIBA) FLAT PACKAGE

C-MOS D-TYPE FLIP-FLOP WITH RESET
– TOP VIEW –

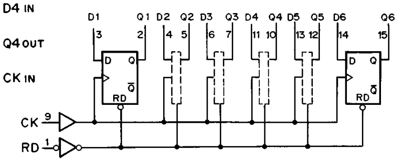

RD IN 1
Q1 OUT 2
D1 IN 3
D2 IN 4
Q2 OUT 5
D3 IN 6
Q3 OUT 7
8 GND
VDD 16
15 Q6 OUT
14 D6 IN
13 D5 IN
12 Q5 OUT
11 D4 IN
10 Q4 OUT
9 CK IN


3 D1
4 D2
6 D3
11 D4
13 D5
14 D6
9
RD 1
Q1 2
Q2 5
Q3 7
Q4 10
Q5 12
Q6 15

EACH FLIP - FLOP

INPUTS			OUT
RD	CK	D	Q
0	X	X	0
1	↑	0	0
1	↑	1	1
1	0	X	Qo

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

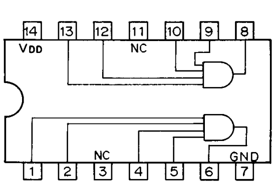

D1
Q1
D2
Q2
D3
Q3
D4
Q4
D5
Q5
D6
Q6
3
2
4
5
6
7
11
10
13
12
14
15
D Q
RD
CK 9
RD 1

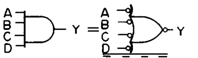
NOTE :

TYPE	VDD
74AC	+3.3 to +5V
74ACT	+5V
74HC	+2 to +6V
TC74AC174	+2 to +5.5V

TC74VHC21F (TOSHIBA) FLAT PACKAGE

C-MOS DUA4-INPUT POSITIVEAND GATE
– TOP VIEW –


14 13 12 11 10 9 8
VDD
NC
NC
GND
1 2 3 4 5 6 7


A
B
C
D
Y =
A
B
C
D
Y

$Y = A \cdot B \cdot C \cdot D = \overline{\overline{A}+\overline{B}+\overline{C}+\overline{D}}$

A	B	C	D	Y
0	0	0	0	0
0	0	0	1	0
0	0	1	0	0
0	0	1	1	0
0	1	0	0	0
⋮	⋮	⋮	⋮	⋮
1	1	0	1	0
1	1	1	0	0
1	1	1	1	1

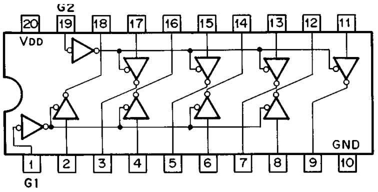
0;LOW LEVEL
1;HIGH LEVEL

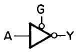
NOTE :

TYPE	VDD
HC	+2 to +6V
VHC	+2 to +5.5V

TC74VHC240F (TOSHIBA) FLAT PACKAGE

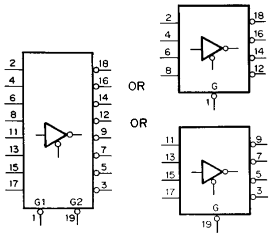
C-MOS 3-STATE INVERTER/LINE DRIVER
– TOP VIEW –


G2
20 19 18 17 16 15 14 13 12 11
VDD
GND
1 2 3 4 5 6 7 8 9 10
G1



G	A	Y
0	0	1
0	1	0
1	X	HI-Z

0;LOW LEVEL
1;HIGH LEVEL
X;DON'T CARE
HI-Z;HIGH IMPEDANCE

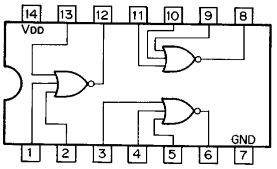

2
4
6
8
11
13
15
17
18
16
14
12
9
7
5
3
G1 1
G2 19
OR
OR
2
4
6
8
18
16
14
12
G 1
11
13
15
17
9
7
5
3
G 19

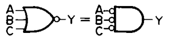
NOTE :

TYPE	VDD
74AC/74HC	+2 to +6V
74ACT/74HCT TC74BC240F TC74BC240P	+5V
TC74AC240F TC74AC240P TC74VHC240	+2 to +5.5V

TC74VHC27FS (TOSHIBA) FLAT PACKAGE

C-MOS 3-LINE POSITIVE-NOR GATE
– TOP VIEW –


14 13 12 11 10 9 8
VDD
GND
1 2 3 4 5 6 7



$Y = \overline{A+B+C} = \overline{A} \cdot \overline{B} \cdot \overline{C}$

A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

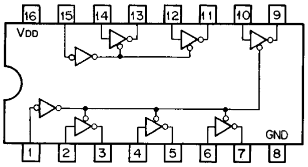
0 ; LOW LEVEL
1 ; HIGH LEVEL

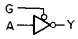
NOTE :

TYPE	VDD
TC40H	+ 2 to + 8V
OTHERS	+ 2 to + 6V

TC74VHC368FS (TOSHIBA) FLAT PACKAGE

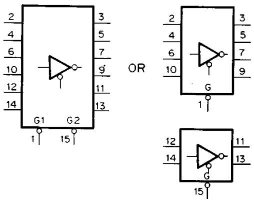
C-MOS BUS INVERTER WITH 3-STATE OUTPUTS
– TOP VIEW –


16
15
14
13
12
11
10
9
VDD
GND
1
2
3
4
5
6
7
8



G	A	Y
0	0	1
0	1	0
1	X	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

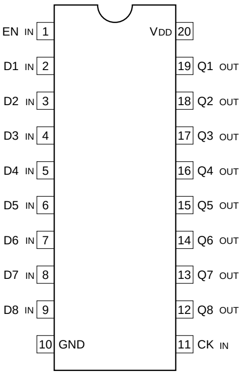

2
4
6
10
12
14
G1
G2
1
15
3
5
7
9
11
13
OR
2
4
6
10
G
1
3
5
7
9
12
14
G
15
11
13

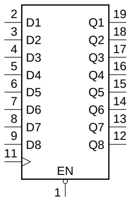
NOTE :

TYPE	VDD
HC	+2 to +6V
VHC	+2 to +5.5V

TC74VHC574F (TOSHIBA) FLAT PACKAGE
TC74VHC574FS (EL) (TOSHIBA) FLAT PACKAGE (SMALL)

C-MOS 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP
– TOP VIEW –

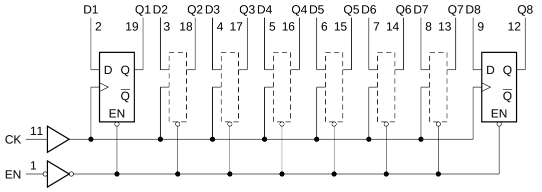

EN IN 1
D1 IN 2
D2 IN 3
D3 IN 4
D4 IN 5
D5 IN 6
D6 IN 7
D7 IN 8
D8 IN 9
10 GND
VDD 20
19 Q1 OUT
18 Q2 OUT
17 Q3 OUT
16 Q4 OUT
15 Q5 OUT
14 Q6 OUT
13 Q7 OUT
12 Q8 OUT
11 CK IN


2 D1
3 D2
4 D3
5 D4
6 D5
7 D6
8 D7
9 D8
11
Q1 19
Q2 18
Q3 17
Q4 16
Q5 15
Q6 14
Q7 13
Q8 12
EN
1

EACH FLIP-FLOP

INPUTS			OUT
EN	CK	D	Q
0	↑	1	1
0	↑	0	0
0	↓	X	Q_0
1	X	X	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE
Q_0 ; NO CHANGE

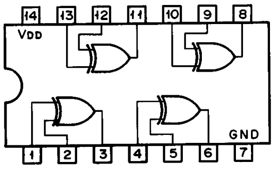

D1 2
Q1 19
D2 3
Q2 18
D3 4
Q3 17
D4 5
Q4 16
D5 6
Q5 15
D6 7
Q6 14
D7 8
Q7 13
D8 9
Q8 12
D Q
Q̄
EN
CK 11
EN 1

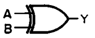
NOTE;

TYPE	VDD
HC	+2 to +6V
AC/VHC	+2 to +5.5V
ACT/FCT/HCT	+5V

TC74VHC86F (TOSHIBA) FLAT PACKAGE

C-MOS QUAD EXCLUSIVE OR GATES
– TOP VIEW –


14
13
12
11
10
9
8
VDD
GND
1
2
3
4
5
6
7



$Y = \overline{A} \cdot B + A \cdot \overline{B}$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

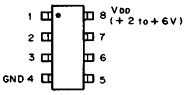
0 ; LOW LEVEL
1 ; HIGH LEVEL

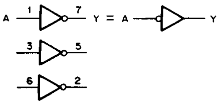
NOTE :

TYPE	VDD
TC74AC/VHC	+2 to +5.5V
TC74HCT	+5V
OTHER TYPES	+2 to +6V

TC7W04FU (TOSHIBA) CHIP PACKAGE

C-MOS HEX INVERTERS
– TOP VIEW –


1
2
3
GND 4
8 VDD (+ 2 to + 6V)
7
6
5

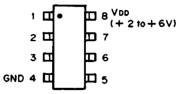

A
1
7
Y = A
Y
3
5
6
2
Y = Ā

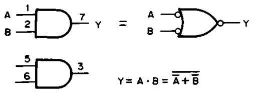
A	Y
0	1
1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

TC7W08FU (TOSHIBA) CHIP PACKAGE

C-MOS DUAL 2-INPUT AND GATE
– TOP VIEW –


1
2
3
GND 4
8 VDD (+ 2 to + 6V)
7
6
5


A
B
1
2
7
Y
=
A
B
Y
5
6
3

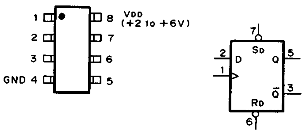
$Y = A \cdot B = \overline{\overline{A} + \overline{B}}$

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL

TC7W74FU (TOSHIBA) CHIP PACKAGE

C-MOS D-TYPE FLIP-FLOPS WITH DIRECT SET/RESET
– TOP VIEW –

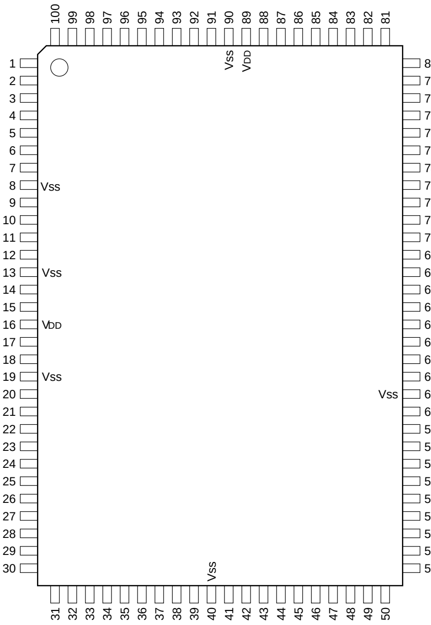

1
2
3
GND 4
8 VDD (+2 to +6V)
7
6
5
7
SD
2 D
Q 5
1
Q̄ 3
RD
6

INPUTS				OUTPUTS	
$\overline{\text{S}_\text{D}}$	$\overline{\text{R}_\text{D}}$	CK	D	Qn + 1	$\overline{\text{Qn + 1}}$
0	1	X	X	1	0
1	0	X	X	0	1
0	0	X	X	1	1
1	1	↑	1	1	0
1	1	↑	0	0	1
1	1	↓	X	Qn	$\overline{\text{Qn}}$

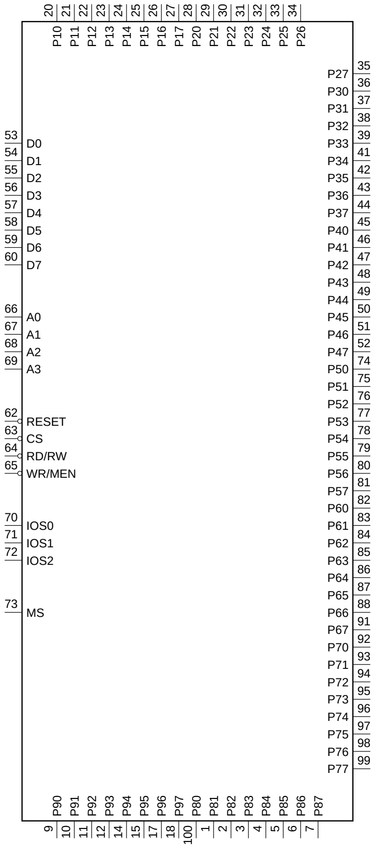
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

TE7751 (TKE)

C-MOS SUPER I/O EXPANDER (8 BIT × 9 CH)
– TOP VIEW –

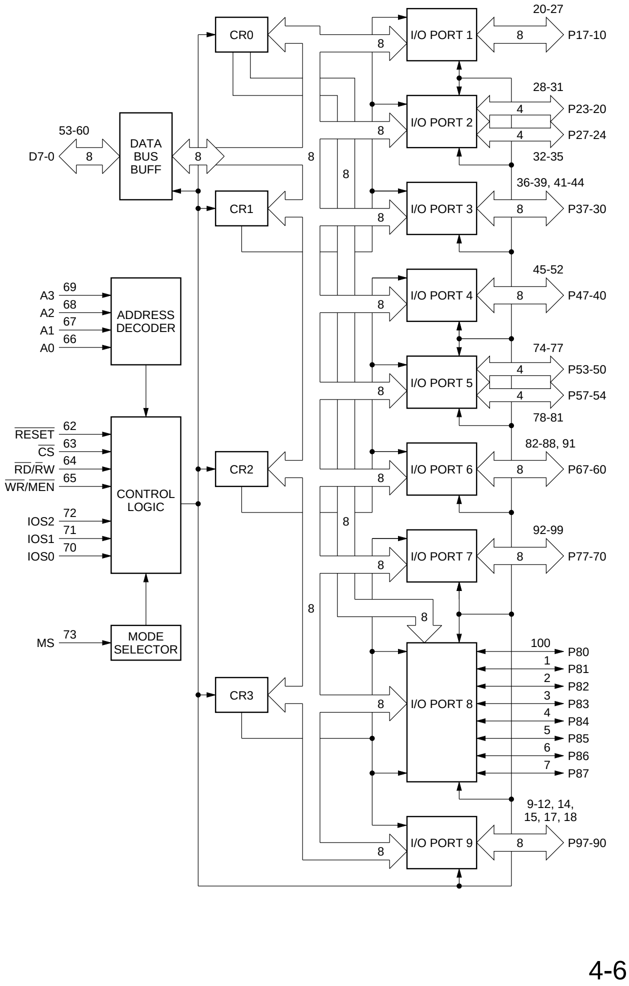

100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
Vss
VDD
Vss
Vss
VDD
Vss
Vss
Vss

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I/O	P81	26	I/O	P16	51	I/O	P46	76	I/O	P52
2	I/O	P82	27	I/O	P17	52	I/O	P47	77	I/O	P53
3	I/O	P83	28	I/O	P20	53	I/O	D0	78	I/O	P54
4	I/O	P84	29	I/O	P21	54	I/O	D1	79	I/O	P55
5	I/O	P85	30	I/O	P22	55	I/O	D2	80	I/O	P56
6	I/O	P86	31	I/O	P23	56	I/O	D3	81	I/O	P57
7	I/O	P87	32	I/O	P24	57	I/O	D4	82	I/O	P60
8	–	Vss	33	I/O	P25	58	I/O	D5	83	I/O	P61
9	I/O	P90	34	I/O	P26	59	I/O	D6	84	I/O	P62
10	I/O	P91	35	I/O	P27	60	I/O	D7	85	I/O	P63
11	I/O	P92	36	I/O	P30	61	–	Vss	86	I/O	P64
12	I/O	P93	37	I/O	P31	62	I	$\overline{\text{RESET}}$	87	I/O	P65
13	–	Vss	38	I/O	P32	63	I	$\overline{\text{CS}}$	88	I/O	P66
14	I/O	P94	39	I/O	P33	64	I	$\overline{\text{RD}}/\overline{\text{R}}\text{W}$	89	–	VDD
15	I/O	P95	40	–	Vss	65	I	$\overline{\text{WR}}/\overline{\text{MEN}}$	90	–	Vss
16	–	VDD	41	I/O	P34	66	I	A0	91	I/O	P67
17	I/O	P96	42	I/O	P35	67	I	A1	92	I/O	P70
18	I/O	P97	43	I/O	P36	68	I	A2	93	I/O	P71
19	–	Vss	44	I/O	P37	69	I	A3	94	I/O	P72
20	I/O	P10	45	I/O	P40	70	I	IOS0	95	I/O	P73
21	I/O	P11	46	I/O	P41	71	I	IOS1	96	I/O	P74
22	I/O	P12	47	I/O	P42	72	I	IOS2	97	I/O	P75
23	I/O	P13	48	I/O	P43	73	I	MS	98	I/O	P76
24	I/O	P14	49	I/O	P44	74	I/O	P50	99	I/O	P77
25	I/O	P15	50	I/O	P45	75	I/O	P51	100	I/O	P80


20 P10
21 P11
22 P12
23 P13
24 P14
25 P15
26 P16
27 P17
28 P20
29 P21
30 P22
31 P23
32 P24
33 P25
34 P26
53 D0
54 D1
55 D2
56 D3
57 D4
58 D5
59 D6
60 D7
66 A0
67 A1
68 A2
69 A3
62 RESET
63 CS
64 RD/RW
65 WR/MEN
70 IOS0
71 IOS1
72 IOS2
73 MS
P27 35
P30 36
P31 37
P32 38
P33 39
P34 41
P35 42
P36 43
P37 44
P40 45
P41 46
P42 47
P43 48
P44 49
P45 50
P46 51
P47 52
P50 74
P51 75
P52 76
P53 77
P54 78
P55 79
P56 80
P57 81
P60 82
P61 83
P62 84
P63 85
P64 86
P65 87
P66 88
P67 91
P70 92
P71 93
P72 94
P73 95
P74 96
P75 97
P76 98
P77 99
9 P90
10 P91
11 P92
12 P93
14 P94
15 P95
17 P96
18 P97
100 P80
1 P81
2 P82
3 P83
4 P84
5 P85
6 P86
7 P87

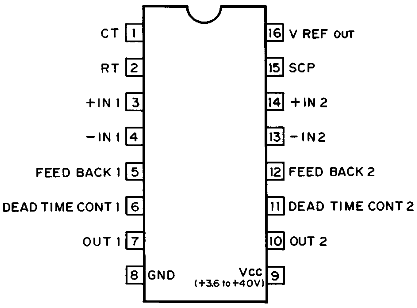
INPUT
A0-A3 ; ADDRESS INPUT
CS ; CHIP SELECT
IOS0-2 ; I/O SELECT
MS ; MODE SELECT
$\overline{\text{RD}}/\overline{\text{R}}\text{W}$; READ/WRITE
RESET ; RESET
$\overline{\text{WR}}/\overline{\text{MEN}}$; WRITE/MOTOROLA ENABLE

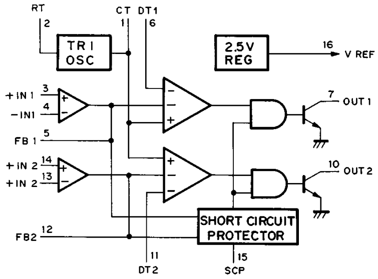
INPUT/OUTPUT
D0-7 ; DATA BUS
P10-17 ; I/O PORT 1
P20-27 ; I/O PORT 2
P30-37 ; I/O PORT 3
P40-47 ; I/O PORT 4
P50-57 ; I/O PORT 5
P60-67 ; I/O PORT 6
P70-77 ; I/O PORT 7
P80-87 ; I/O PORT 8
P90-97 ; I/O PORT 9


CR0
CR1
CR2
CR3
I/O PORT 1
I/O PORT 2
I/O PORT 3
I/O PORT 4
I/O PORT 5
I/O PORT 6
I/O PORT 7
I/O PORT 8
I/O PORT 9
20-27
8
P17-10
28-31
4
P23-20
4
P27-24
32-35
36-39, 41-44
8
P37-30
45-52
8
P47-40
74-77
4
P53-50
4
P57-54
78-81
82-88, 91
8
P67-60
92-99
8
P77-70
100 P80
1 P81
2 P82
3 P83
4 P84
5 P85
6 P86
7 P87
9-12, 14, 15, 17, 18
8
P97-90
53-60
D7-0
8
DATA BUS BUFF
8
8
8
A3 69
A2 68
A1 67
A0 66
ADDRESS DECODER
RESET 62
CS 63
RD/RW 64
WR/MEN 65
IOS2 72
IOS1 71
IOS0 70
CONTROL LOGIC
MS 73
MODE SELECTOR

TL1451ACNS (TI) FLAT PACKAGE
TL1451ACPW (TI) FLAT PACKAGE (SMALL)

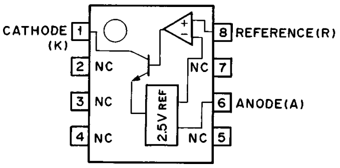
DUAL PWM POWER CONTROLLER
– TOP VIEW –

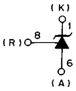

CT 1
RT 2
+IN 1 3
−IN 1 4
FEED BACK 1 5
DEAD TIME CONT 1 6
OUT 1 7
8 GND
16 V REF OUT
15 SCP
14 +IN 2
13 −IN2
12 FEED BACK 2
11 DEAD TIME CONT 2
10 OUT 2
VCC (+3.6 to +40V) 9


RT 2
CT 1
DT1 6
TRI OSC
2.5V REG
16 V REF
+IN 1 3
−IN1 4
FB 1 5
+IN 2 14
+IN 2 13
FB2 12
7 OUT 1
10 OUT 2
SHORT CIRCUIT PROTECTOR
11 DT2
15 SCP

TL431CML (MOTOROLA) FLAT PACKAGE

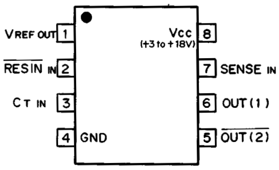
PROGRAMMABLE SHUNT REGULATOR DIODE
– TOP VIEW –

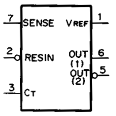

CATHODE (K) 1
2 NC
3 NC
4 NC
8 REFERENCE(R)
NC 7
6 ANODE(A)
NC 5
2.5V REF

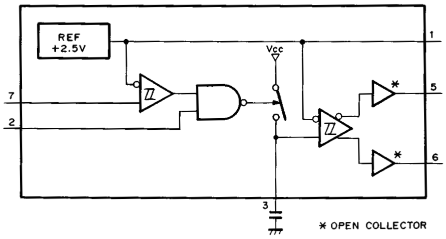


TL7705ACPS (TI) FLAT PACKAGE

POWER VOLTAGE SUPERVISOR
– TOP VIEW –

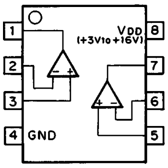

VREF OUT 1
RESIN IN 2
CT IN 3
4 GND
VCC (+3 to +18V) 8
7 SENSE IN
6 OUT(1)
5 OUT(2)


7 SENSE
VREF 1
2 RESIN
OUT (1) 6
OUT (2) 5
3 CT


REF +2.5V
1
7
2
VCC
5
6
3
* OPEN COLLECTOR

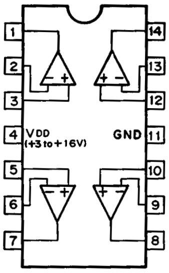
TLC272CPW (TI)

OPERATIONAL AMPLIFIER
– TOP VIEW –


1
2
3
4 GND
VDD (+3V to +16V) 8
7
6
5

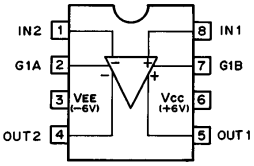
TLC274CPW (TI) FLAT PACKAGE

C-MOS OPERATIONAL AMPLIFIER
– TOP VIEW –


1
2
3
4 VDD (+3 to +16V)
5
6
7
14
13
12
GND 11
10
9
8

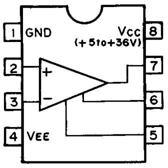
UPC1663G (NEC) FLAT PACKAGE

WIDEBAND VIDEO AMPLIFIER
– TOP VIEW –


IN2 1
G1A 2
3 VEE (−6V)
OUT2 4
8 IN1
7 G1B
VCC (+6V) 6
5 OUT 1

UPC311G2 (NEC) FLAT PACKAGE

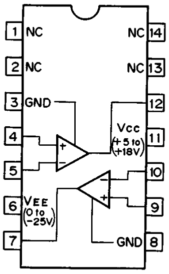
VOLTAGE COMPARATOR
– TOP VIEW –


1 GND
2
3
4 VEE
VCC (+5 to +36V) 8
7
6
5

http://getMANUAL.com

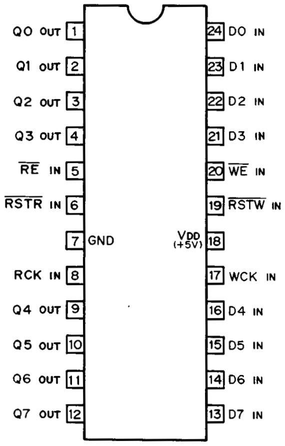
UPC319G2 (NEC) FLAT PACKAGE

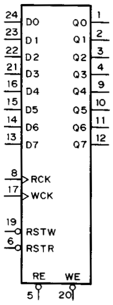
DUAL VOLTAGE COMPARATOR
– TOP VIEW –


1 NC
2 NC
3 GND
4
5
6 VEE (0 to -25V)
7
NC 14
NC 13
12
Vcc (+5 to +18V) 11
10
9
GND 8

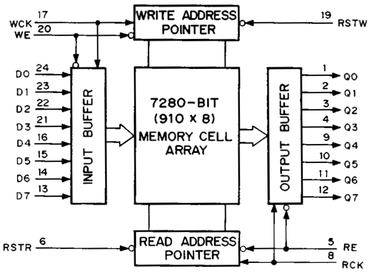
UPD42101G-3 (NEC) FLAT PACKAGE

C-MOS 7K (910 × 8) -BIT FIFO MEMORY
– TOP VIEW –


Q0 OUT 1
Q1 OUT 2
Q2 OUT 3
Q3 OUT 4
RE IN 5
RSTR IN 6
7 GND
RCK IN 8
Q4 OUT 9
Q5 OUT 10
Q6 OUT 11
Q7 OUT 12
24 D0 IN
23 D1 IN
22 D2 IN
21 D3 IN
20 WE IN
19 RSTW IN
VDD (+5V) 18
17 WCK IN
16 D4 IN
15 D5 IN
14 D6 IN
13 D7 IN

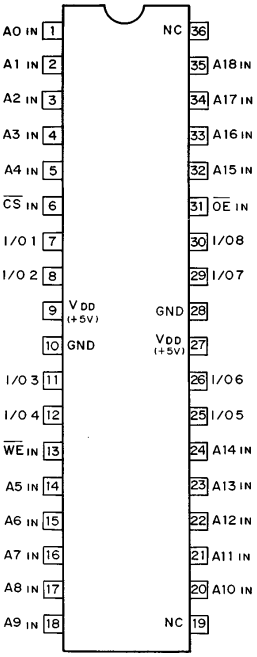

24 D0
23 D1
22 D2
21 D3
16 D4
15 D5
14 D6
13 D7
Q0 1
Q1 2
Q2 3
Q3 4
Q4 9
Q5 10
Q6 11
Q7 12
8 RCK
17 WCK
19 RSTW
6 RSTR
RE 5
WE 20

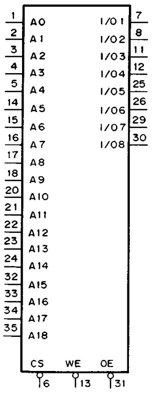
D0–D7 ; DATA INPUTS
Q0–Q7 ; DATA OUTPUTS
WCK ; WRITE CLOCK INPUT
RCK ; READ CLOCK INPUT
WE ; WRITE ENABLE INPUT
RE ; READ ENABLE INPUT
RSTW ; RESET WRITE INPUT
RSTR ; RESET READ INPUT


WCK 17
WE 20
WRITE ADDRESS POINTER
19 RSTW
D0 24
D1 23
D2 22
D3 21
D4 16
D5 15
D6 14
D7 13
INPUT BUFFER
7280-BIT (910 x 8) MEMORY CELL ARRAY
OUTPUT BUFFER
1 Q0
2 Q1
3 Q2
4 Q3
9 Q4
10 Q5
11 Q6
12 Q7
RSTR 6
READ ADDRESS POINTER
5 RE
8 RCK

UPD434008LE-20 (NEC) CHIP CARRIER

C-MOS 4M (524288 WORD × 8) -BIT STATIC RAM
– TOP VIEW –


A0 IN 1
A1 IN 2
A2 IN 3
A3 IN 4
A4 IN 5
CS IN 6
I/O1 7
I/O2 8
9 VDD (+5V)
10 GND
I/O3 11
I/O4 12
WE IN 13
A5 IN 14
A6 IN 15
A7 IN 16
A8 IN 17
A9 IN 18
NC 36
35 A18 IN
34 A17 IN
33 A16 IN
32 A15 IN
31 OE IN
30 I/O8
29 I/O7
GND 28
VDD (+5V) 27
26 I/O6
25 I/O5
24 A14 IN
23 A13 IN
22 A12 IN
21 A11 IN
20 A10 IN
NC 19


1 A0
2 A1
3 A2
4 A3
5 A4
14 A5
15 A6
16 A7
17 A8
18 A9
20 A10
21 A11
22 A12
23 A13
24 A14
32 A15
33 A16
34 A17
35 A18
I/O1 7
I/O2 8
I/O3 11
I/O4 12
I/O5 25
I/O6 26
I/O7 29
I/O8 30
CS 6
WE 13
OE 31

A0 – A18 ; ADDRESS INPUTS
$\overline{\mathrm{CS}}$; CHIP SELECT INPUT
I/O1 – I/O8 ; DATA INPUT/OUTPUTS
$\overline{\mathrm{OE}}$; OUTPUT ENABLE INPUT
$\overline{\mathrm{WE}}$; WRITE ENABLE INPUT

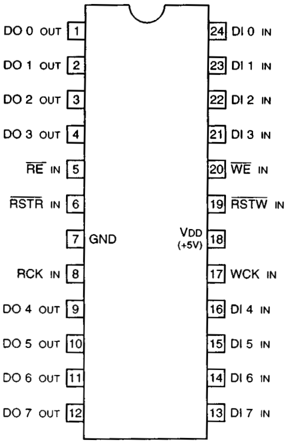
OPERATING MODE

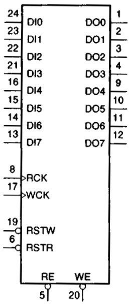
CS	OE	WE	MODE	I/O1 – I/O8
1	X	X	UNSELECT	HI-Z
0	1	1	OUTPUT DISABLE	HI-Z
0	0	1	READ	DATA OUT
0	X	0	WRITE	DATA IN

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

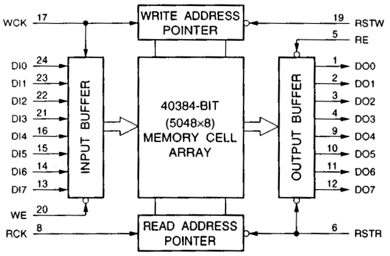
UPD485505G-35 (NEC) FLAT PACKAGE

C-MOS 40K (5,048 × 8) -BIT FIFO MEMORY
– TOP VIEW –


DO 0 OUT 1
DO 1 OUT 2
DO 2 OUT 3
DO 3 OUT 4
RE IN 5
RSTR IN 6
7 GND
RCK IN 8
DO 4 OUT 9
DO 5 OUT 10
DO 6 OUT 11
DO 7 OUT 12
24 DI 0 IN
23 DI 1 IN
22 DI 2 IN
21 DI 3 IN
20 WE IN
19 RSTW IN
VDD (+5V) 18
17 WCK IN
16 DI 4 IN
15 DI 5 IN
14 DI 6 IN
13 DI 7 IN

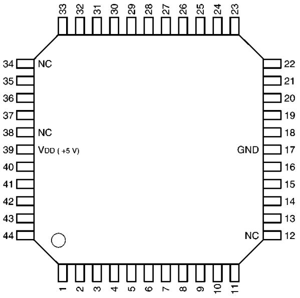

24 DI0
23 DI1
22 DI2
21 DI3
16 DI4
15 DI5
14 DI6
13 DI7
DO0 1
DO1 2
DO2 3
DO3 4
DO4 9
DO5 10
DO6 11
DO7 12
8 RCK
17 WCK
19 RSTW
6 RSTR
RE 5
WE 20

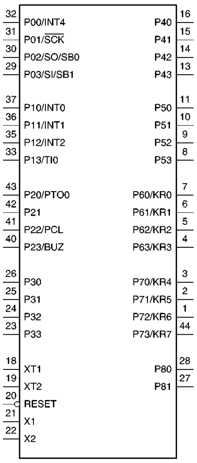
DI0-DI7 ; DATA INPUTS
DO0-DO7 ; DATA OUTPUTS
RCK ; READ CLOCK INPUT
$\overline{\mathrm{RE}}$; READ ENABLE INPUT
$\overline{\mathrm{RSTR}}$; RESET READ INPUT
$\overline{\mathrm{RSTW}}$; RESET WRITE INPUT
WCK ; WRITE CLOCL INPUT
$\overline{\mathrm{WE}}$; WRITE ENABLE INPUT


WCK 17
WRITE ADDRESS POINTER
19 RSTW
5 RE
DI0 24
DI1 23
DI2 22
DI3 21
DI4 16
DI5 15
DI6 14
DI7 13
INPUT BUFFER
40384-BIT (5048×8) MEMORY CELL ARRAY
OUTPUT BUFFER
1 DO0
2 DO1
3 DO2
4 DO3
9 DO4
10 DO5
11 DO6
12 DO7
WE 20
RCK 8
READ ADDRESS POINTER
6 RSTR

UPD75004GB-3B4 (NEC)

C-MOS 4-BIT SINGLE CHIP
– TOP VIEW –


NC
VDD (+5 V)
GND
NC
NC
1 2 3 4 5 6 7 8 9 10 11
12 13 14 15 16 17 18 19 20 21 22
23 24 25 26 27 28 29 30 31 32 33
34 35 36 37 38 39 40 41 42 43 44


32 P00/INT4
31 P01/$\overline{\text{SCK}}$
30 P02/SO/SB0
29 P03/SI/SB1
37 P10/INT0
36 P11/INT1
35 P12/INT2
33 P13/TI0
43 P20/PTO0
42 P21
41 P22/PCL
40 P23/BUZ
26 P30
25 P31
24 P32
23 P33
18 XT1
19 XT2
20 RESET
21 X1
22 X2
P40 16
P41 15
P42 14
P43 13
P50 11
P51 10
P52 9
P53 8
P60/KR0 7
P61/KR1 6
P62/KR2 5
P63/KR3 4
P70/KR4 3
P71/KR5 2
P72/KR6 1
P73/KR7 44
P80 28
P81 27

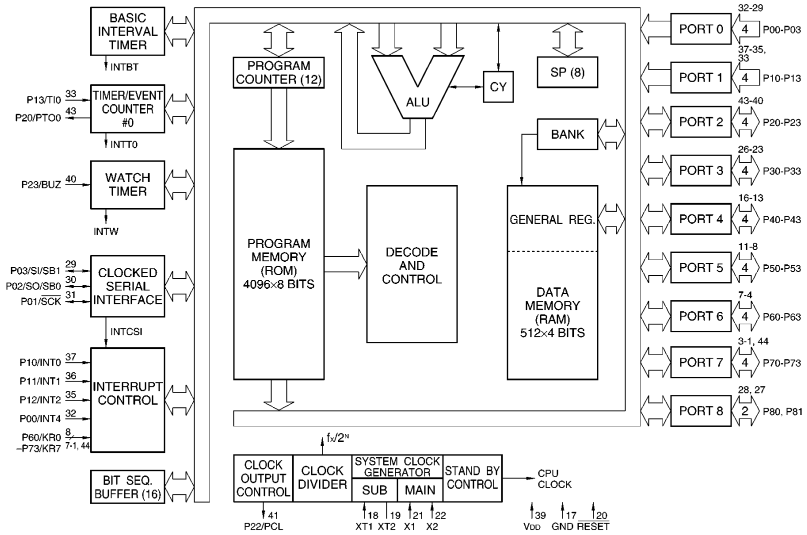
INPUT
INT0, INT1, INT4 ; INTERRUPT 0, 1, 4
INT2 ; TEST 2
KR0 - KR7 ; KEY RETURN
P10 - P13 ; PORT 1
$\overline{\text{RESET}}$; SYSTEM RESET
SI ; SERIAL DATA
TI0 ; TIMER INPUT 0
X1, X2 ; MAIN SYSTEM X'TAL
XT1, XT2 ; SUB SYSTEM X'TAL

OUTPUT
BUZ ; BUZZER CLOCK
PCL ; PROGRAMMABLE CLOCK
PTO0 ; PROGRAMMABLE TIMER OUTPUT 0
SO ; SERIAL DATA

INPUT/OUTPUT
P00 - P03 ; PORT 0
P20 - P23 ; PORT 2
P30 - P33 ; PORT 3
P40 - P43 ; PORT 4
P50 - P53 ; PORT 5
P60 - P63 ; PORT 6
P70 - P73 ; PORT 7
P80 - P81 ; PORT 8
$\overline{\text{SCK}}$; SERIAL CLOCK
SB0, SB1 ; SERIAL BUS 0, 1

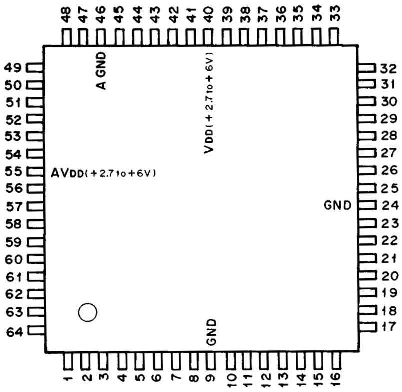
(VDD = +5 V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I/O	P72/KR6	12	—	NC	23	I/O	P33	34	—	NC
2	I/O	P71/KR5	13	I/O	P43	24	I/O	P32	35	I	P12/INT2
3	I/O	P70/KR4	14	I/O	P42	25	I/O	P31	36	I	P11/INT1
4	I/O	P63/KR3	15	I/O	P41	26	I/O	P30	37	I	P10/INT0
5	I/O	P62/KR2	16	I/O	P40	27	I/O	P81	38	—	NC
6	I/O	P61/KR1	17	—	GND	28	I/O	P80	39	—	VDD
7	I/O	P60/KR0	18	I	XT1	29	I/O	P03/SI/SB1	40	I/O	P23/BUZ
8	I/O	P53	19	—	XT2	30	I/O	P02/SO/SB0	41	I/O	P22/PCL
9	I/O	P52	20	I	$\overline{\text{RESET}}$	31	I/O	P01/$\overline{\text{SCK}}$	42	I/O	P21
10	I/O	P51	21	I	X1	32	I	P00/INT4	43	I/O	P20/PTO0
11	I/O	P50	22	I	X2	33	I	P13/TI0	44	I/O	P73/KR7


BASIC INTERVAL TIMER
INTBT
P13/TI0 33
P20/PTO0 43
TIMER/EVENT COUNTER #0
INTT0
P23/BUZ 40
WATCH TIMER
INTW
P03/SI/SB1 29
P02/SO/SB0 30
P01/$\overline{\text{SCK}}$ 31
CLOCKED SERIAL INTERFACE
INTCSI
P10/INT0 37
P11/INT1 36
P12/INT2 35
P00/INT4 32
P60/KR0 8
–P73/KR7 7-1, 44
INTERRUPT CONTROL
BIT SEQ. BUFFER (16)
PROGRAM COUNTER (12)
ALU
CY
SP (8)
BANK
PROGRAM MEMORY (ROM) 4096×8 BITS
DECODE AND CONTROL
GENERAL REG.
DATA MEMORY (RAM) 512×4 BITS
$f_X/2^N$
CLOCK OUTPUT CONTROL
CLOCK DIVIDER
SYSTEM CLOCK GENERATOR
SUB
MAIN
STAND BY CONTROL
CPU CLOCK
41 P22/PCL
18 XT1
19 XT2
21 X1
22 X2
39 VDD
17 GND
20 $\overline{\text{RESET}}$
PORT 0 4 32-29 P00-P03
PORT 1 4 37-35, 33 P10-P13
PORT 2 4 43-40 P20-P23
PORT 3 4 26-23 P30-P33
PORT 4 4 16-13 P40-P43
PORT 5 4 11-8 P50-P53
PORT 6 4 7-4 P60-P63
PORT 7 4 3-1, 44 P70-P73
PORT 8 2 28, 27 P80, P81

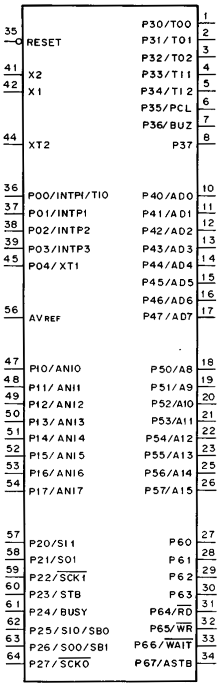
UPD78P014GC-AB8 (NEC)

C-MOS 8-BIT SINGLE CHIP MICROCOMPUTER WITH ONE TIME PROM
– TOP VIEW –


A GND
VDD(+2.7to+6V)
AVDD(+2.7to+6V)
GND
GND

(AV$_{DD}$ = V$_{DD}$ = + 2.7 to + 6 V)

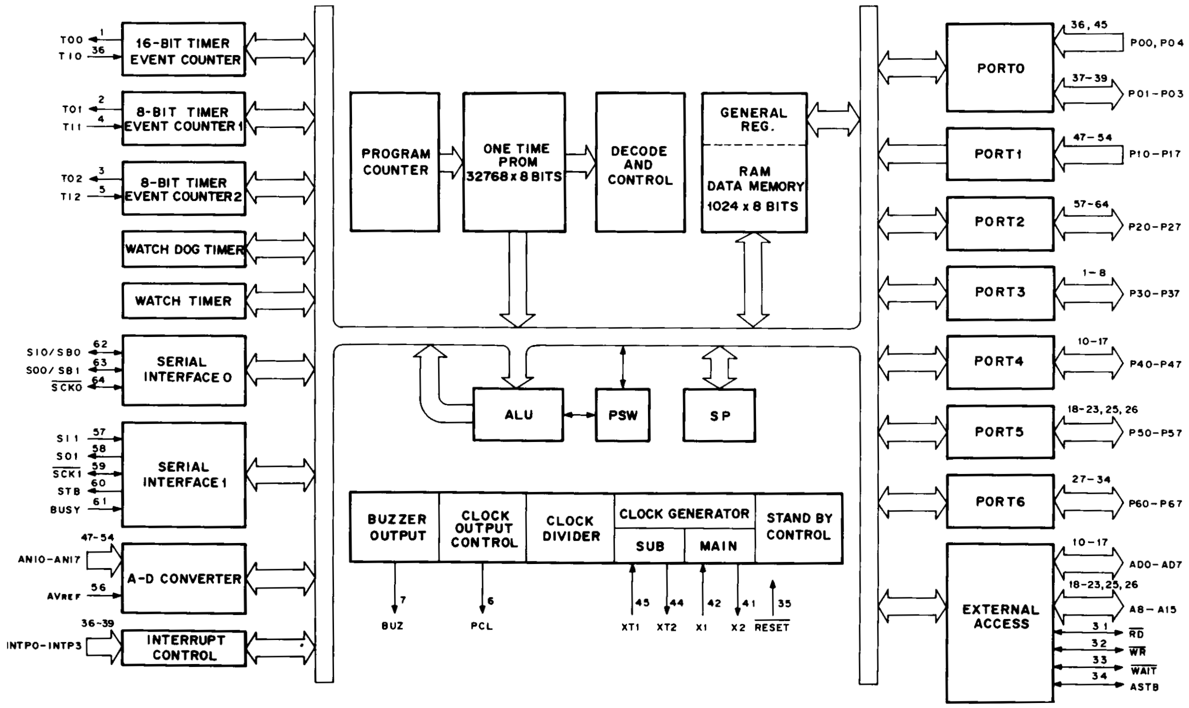
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGANL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I/O	P30/TO0	17	I/O	P47/AD7	33	I/O	P66/$\overline{\text{WAIT}}$	49	I	P12/ANI2
2	I/O	P31/TO1	18	I/O	P50/A8	34	I/O	P67/ASTB	50	I	P13/ANI3
3	I/O	P32/TO2	19	I/O	P51/A9	35	I	$\overline{\text{RESET}}$	51	I	P14/ANI4
4	I/O	P33/TI1	20	I/O	P52/A10	36	I	P00/INTP0/TI0	52	I	P15/ANI5
5	I/O	P34/TI2	21	I/O	P53/A11	37	I/O	P01/INTP1	53	I	P16/ANI6
6	I/O	P35/PCL	22	I/O	P54/A12	38	I/O	P02/INTP2	54	I	P17/ANI7
7	I/O	P36/BUZ	23	I/O	P55/A13	39	I/O	P03/INTP3	55	–	AV$_{DD}$
8	I/O	P37	24	I/O	GND	40	–	V$_{DD}$	56	–	AV$_{REF}$
9	–	GND	25	I/O	P56/A14	41	O	X2	57	I/O	P20/SI1
10	I/O	P40/AD0	26	I/O	P57/A15	42	I	X1	58	I/O	P21/SO1
11	I/O	P41/AD1	27	I/O	P60	43	–	Vpp	59	I/O	P22/$\overline{\text{SCK1}}$
12	I/O	P42/AD2	28	I/O	P61	44	–	XT2	60	I/O	P23/STB
13	I/O	P43/AD3	29	I/O	P62	45	I	P04/XT1	61	I/O	P24/BUSY
14	I/O	P44/AD4	30	I/O	P63	46	–	A GND	62	I/O	P25/SI0/SB0
15	I/O	P45/AD5	31	I/O	P64/$\overline{\text{RD}}$	47	I	P10/ANI0	63	I/O	P26/SO0/SB1
16	I/O	P46/AD6	32	I/O	P65/$\overline{\text{WR}}$	48	I	P11/ANI1	64	I/O	P27/$\overline{\text{SCK0}}$


RESET
X2
X1
XT2
P00/INTP1/TI0
P01/INTP1
P02/INTP2
P03/INTP3
P04/XT1
AVREF
P10/ANI0
P11/ANI1
P12/ANI2
P13/ANI3
P14/ANI4
P15/ANI5
P16/ANI6
P17/ANI7
P20/SI1
P21/SO1
P22/SCK1
P23/STB
P24/BUSY
P25/SI0/SB0
P26/SO0/SB1
P27/SCK0
P30/TO0
P31/TO1
P32/TO2
P33/TI1
P34/TI2
P35/PCL
P36/BUZ
P37
P40/AD0
P41/AD1
P42/AD2
P43/AD3
P44/AD4
P45/AD5
P46/AD6
P47/AD7
P50/A8
P51/A9
P52/A10
P53/A11
P54/A12
P55/A13
P56/A14
P57/A15
P60
P61
P62
P63
P64/RD
P65/WR
P66/WAIT
P67/ASTB

INPUT
ANI0 – ANI7 ; ANALOG 0 – 7
AVREF ; ANALOG REFERENCE VOLTAGE
BUSY ; BUSY
INTP0 – INTP3 ; INTERRUPT FROM PERIPHERALS 0 – 3
P00, P04 ; PORT 0
P10 – P17 ; PORT 1
RESET ; RESET
SI0, SI1 ; SERIAL 0, 1
TI0 – TI2 ; TIMER 0 – 2
WAIT ; WAIT
X1, X2 ; CRYSTAL 1, 2 (MAIN SYSTEM CLOCK)
XT1, XT2 ; CRYSTAL 1, 2 (SUB SYSTEM CLOCK)

OUTPUT
A8 – A15 ; ADDRESS BUS 8 – 15
ASTB ; ADDRESS STROBE
BUZ ; BUZZER CLOCK
PCL ; PROGRAMMABLE CLOCK
RD ; READ STROBE
SO0, SO1 ; SERIAL 0, 1
STB ; STROBE
TO0 – TO2 ; TIMER 0 – 2
WR ; WRITE STROBE

INPUT/OUTPUT
AD0 – AD7 ; ADDRESS/DATA BUS 0 – 7
P01 – P03 ; PORT 0
P20 – P27 ; PORT 2
P30 – P37 ; PORT 3
P40 – P47 ; PORT 4
P50 – P57 ; PORT 5
P60 – P67 ; PORT 6
SB0, SB1 ; SERIAL BUS 0, 1
SCK0, SCK1 ; SERIAL CLOCK 0, 1


TO0
TI0
16-BIT TIMER EVENT COUNTER
TO1
TI1
8-BIT TIMER EVENT COUNTER1
TO2
TI2
8-BIT TIMER EVENT COUNTER2
WATCH DOG TIMER
WATCH TIMER
SI0/SB0
SO0/SB1
SCK0
SERIAL INTERFACE 0
SI1
SO1
SCK1
STB
BUSY
SERIAL INTERFACE 1
ANI0-ANI7
AVREF
A-D CONVERTER
INTP0-INTP3
INTERRUPT CONTROL
PROGRAM COUNTER
ONE TIME PROM 32768 x 8 BITS
DECODE AND CONTROL
GENERAL REG.
RAM DATA MEMORY 1024 x 8 BITS
ALU
PSW
SP
BUZZER OUTPUT
CLOCK OUTPUT CONTROL
CLOCK DIVIDER
CLOCK GENERATOR
SUB
MAIN
STAND BY CONTROL
BUZ
PCL
XT1
XT2
X1
X2
RESET
PORT0
P00, P04
P01-P03
PORT1
P10-P17
PORT2
P20-P27
PORT3
P30-P37
PORT4
P40-P47
PORT5
P50-P57
PORT6
P60-P67
EXTERNAL ACCESS
AD0-AD7
A8-A15
RD
WR
WAIT
ASTB

Section 5
Spare Parts

5-1. Notes on Repair Parts

1. Safety Related Components Warning

Components marked ⚠ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.

Parts list has the present standardized repair parts.

3. Stock of Parts

Parts marked with "o" at SP(Supply Code) column of the spare parts list may be not stocked. Therefore, the delivery date will be delayed.

4. Units Representation

The following represented units are changed or omitted in writing.

Units		Representation
Capacitance	µF	uF
Inductance	µH	uH
Resistance	Ω	Abbreviation
Temperature	°C	XXX-DEG-C

5. Destination Representation

The part indicated "for J/UC/SY" in the spare parts list is used in the unit written below.

for J : The part is used in a unit for Japan.
for UC : The part is used in a unit for U.S.A. and Canada.
for SY : The part is used in a unit for regions except the above countries.
for NTSC : The part is used in the NTSC model.
for PAL : The part is used in the PAL model.

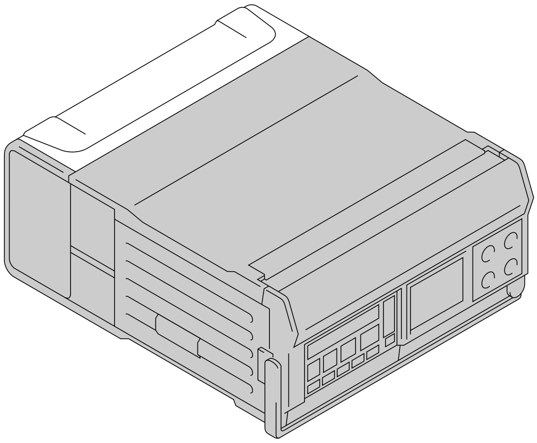
5-2. Exploded Views

Index

Item	Title	Page
Upper plate Bottom plate Handle Cabinet (left) Battery lid	TOP AND BOTTOM PANELS	5-4
Rear cabinet Battery retainer Battery connector	BATTERY CASE	5-6
Front panel assembly Switch bottons Switch knobs	FRONT PANEL	5-8
Connectors Fuse CP-260 board CC-66 board	CONNECTOR PANEL	5-10
Display modules KY-315 board ADA-44 board SST-33 board	FRONT CHASSIS AND MOUNTED CIRCUIT BOARDS	5-12
VPR-12 board DPR-62 board DIF-31 board MB-601 board EQ-54 board Power block	REAR CHASSIS AND VIDEO BOARDS	5-14
Cassette compartment	CASSETTE COMPARTMENT	5-16
S-side reel table T-side reel table Slide link SE-233 board	S/T REEL TABLES	5-18
Drum assembly Brush Slip ring S-side reel motor S-side brake Drivig belt	DRUM AND S-SIDE REEL MOTOR	5-20
CTL head FE head Video head cleaner Tape guide (S3)	CTL HEAD AND VIDEO HEAD CLEANER	5-22
Tension regulator S-side drawing arm Tape guide (S4,S5)	TENSION REGULATOR AND S-SIDE DRAWING ARM	5-24
S-side rail S-side slider S-side catcher S-side threading gear Tape guide (S1,S2)	S-SIDE THREADING LINK	5-26

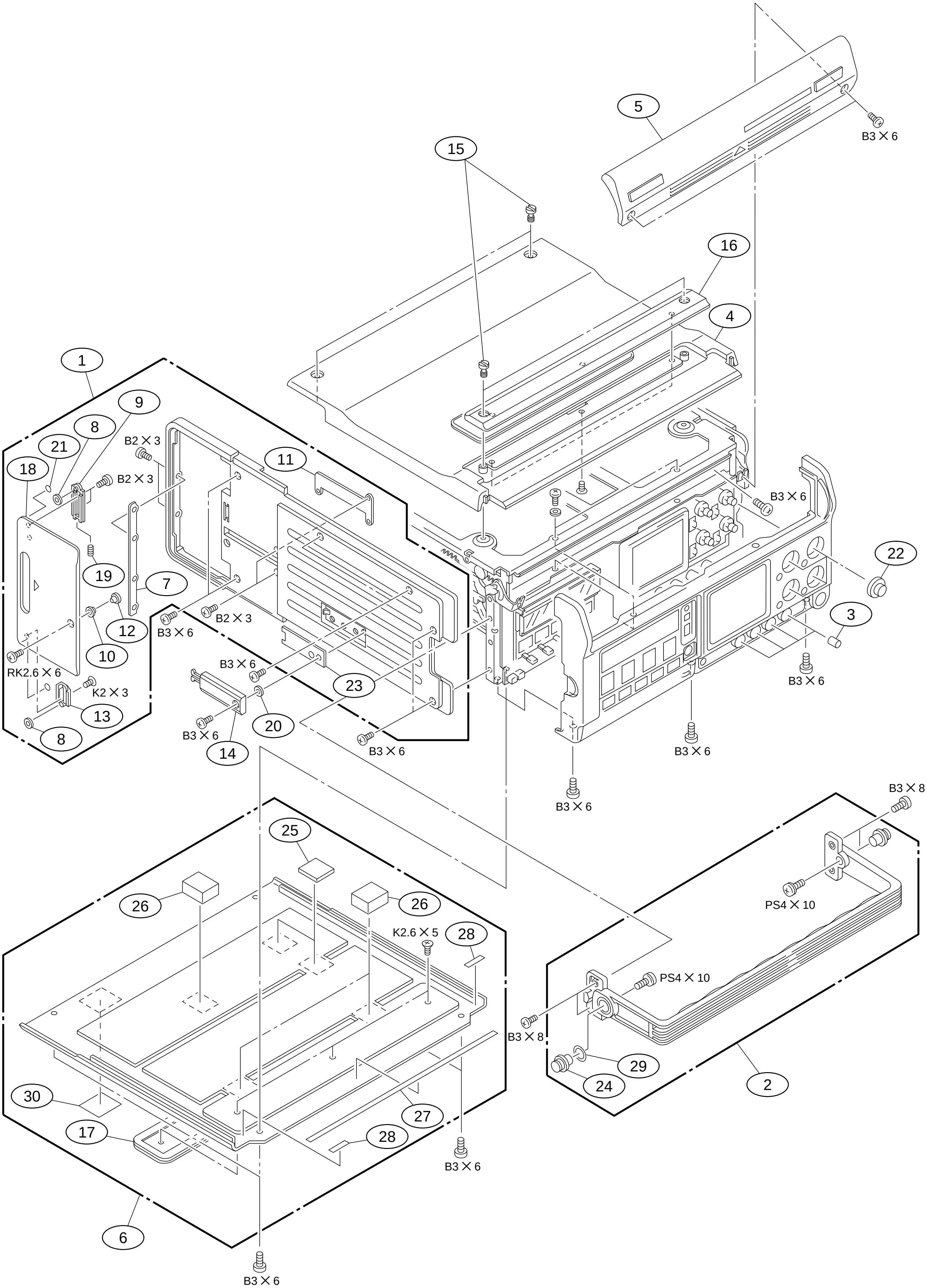
Item	**Title**	**Page**
T-side rail T-side slider T-side catcher T-side threading gear Tape guide (T1,T2)	T-SIDE THREADING LINK	5-28
CUE/TC head CUE brush Capstan motor	CUE/TC HEAD AND CAPSTAN MOTOR	5-30
T-side reel motor T-side brake Drivig belt Pinch pressing arm Pinch pressing plunger	T-SIDE REEL MOTOR AND PINCH PRESS BLOCK	5-32
Treading motor Gear block Manual eject gear	THREADING MOTOR AND GEAR TRAIN	5-34
Pinch roller arm T-side drawing arm CUE link DET-26 board Tape guide (T3)	CUE LINK AND PINCH ARM	5-36

TOP AND BOTTOM PANELS

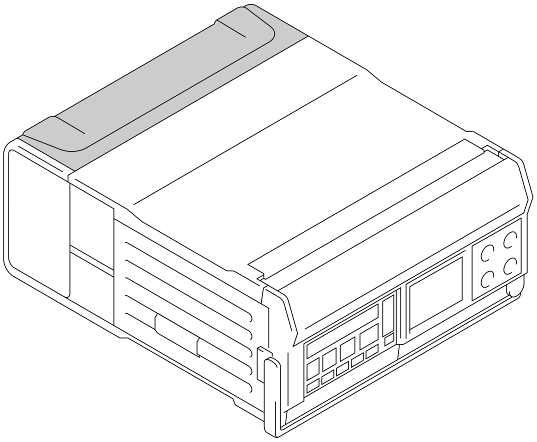


No.	Part No.	SP	Description
1	A-8269-457-A	o	CABINET (LEFT) ASSY
2	A-8278-239-A	o	ASSY,HANDLE
3	X-3664-208-0	s	KNOB ASSY, FADE
4	X-3678-394-2	o	PLATE SUB ASSY, UPPER
5	X-3678-398-1	o	COVER ASSY, FRONT (for J, UC)
	X-3678-413-1	o	COVER ASSY, FRONT (for SY)
6	X-3678-463-1	o	PLATE SUB ASSY, BOTTOM
7	3-169-331-01	o	BRACKET, CABINET (REAR)
8	3-169-346-01	s	ROLLER (A)
9	3-169-347-05	o	HOLDER (B), ROLLER
10	3-169-348-02	s	ROLLER (B)
11	3-169-349-11	o	COVER, ROLLER
12	3-169-350-02	s	SHAFT, BT ROLLER
13	3-169-351-05	o	HOLDER (A), ROLLER
14	3-169-406-21	o	COVER, L SUB
15	3-169-407-02	s	SCREW, LID
16	3-169-517-01	o	CUSHION (UPPER), ER
17	3-169-524-01	o	CUSHION (LOWER), ER
18	3-169-530-21	o	LID, BT
19	3-644-718-00	s	SPRING, COMPRESSION
20	3-669-596-01	s	WASHER (2.3), STOPPER
21	3-682-543-00	s	RETAINER, FLYWHEEL
22	3-691-399-01	s	KNOB, VR
23	3-691-506-01	o	PLATE,ORNAMENTAL
24	3-693-977-01	o	SHAFT, HANDLE
25	3-694-126-01	o	SHEET (S), VENTILATION
26	3-694-127-01	o	SHEET (L), VENTILATION
27	3-694-128-01	o	CUSHION (L)
28	3-694-129-01	o	CUSHION (S)
29	3-728-663-01	s	RING (P7), O
30	3-921-816-01	s	LABEL, NI-CD RECYCLE

TOP AND BOTTOM PANELS

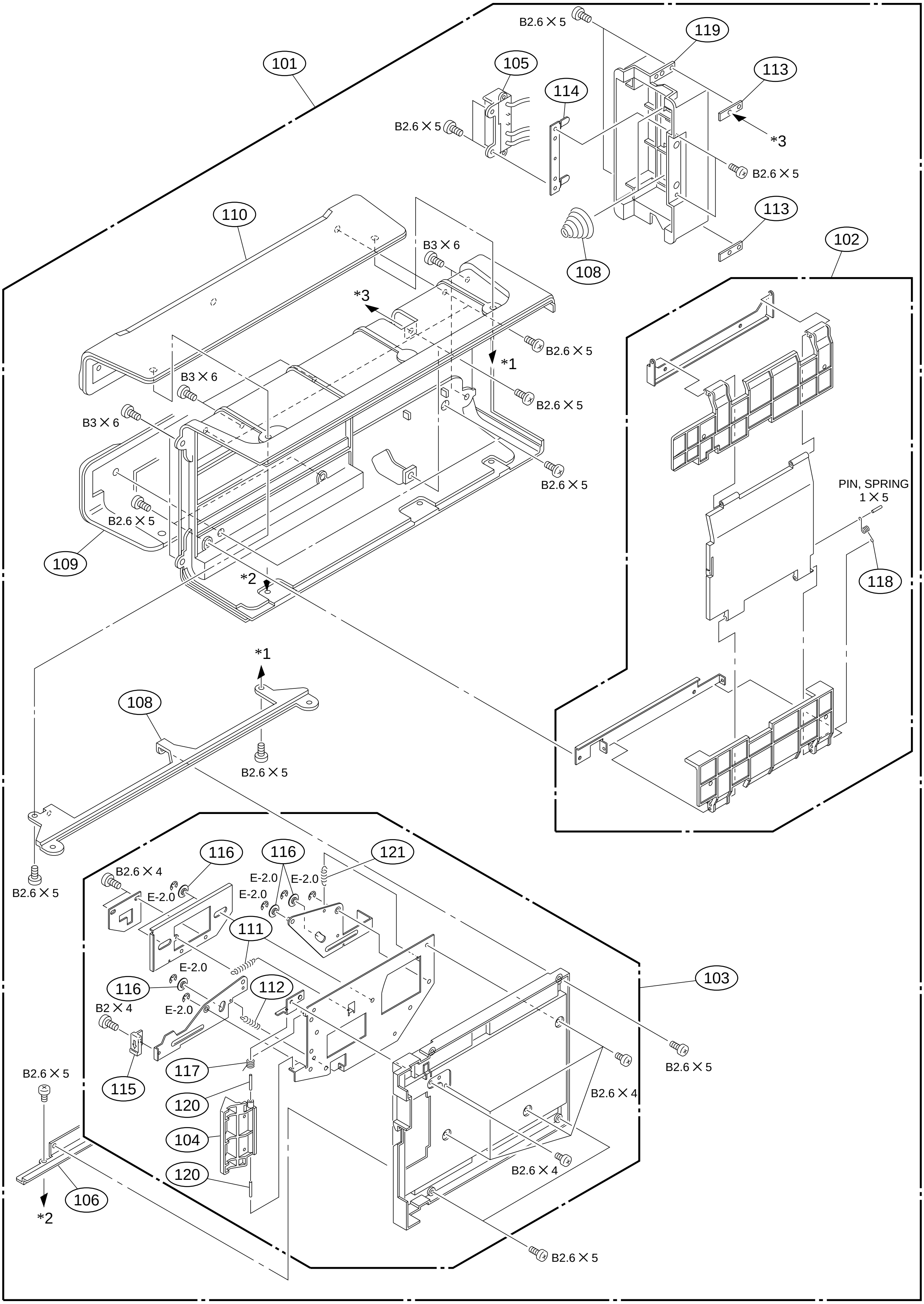

5
B3 × 6
15
16
4
1
9
8
B2 × 3
21
18
B2 × 3
11
19
7
12
B3 × 6
B2 × 3
10
RK2.6 × 6
K2 × 3
13
8
B3 × 6
23
20
B3 × 6
14
B3 × 6
B3 × 6
22
3
B3 × 6
B3 × 6
B3 × 6
B3 × 8
PS4 × 10
25
26
26
K2.6 × 5
28
PS4 × 10
B3 × 8
29
24
2
30
17
27
28
B3 × 6
6
B3 × 6

BATTERY CASE

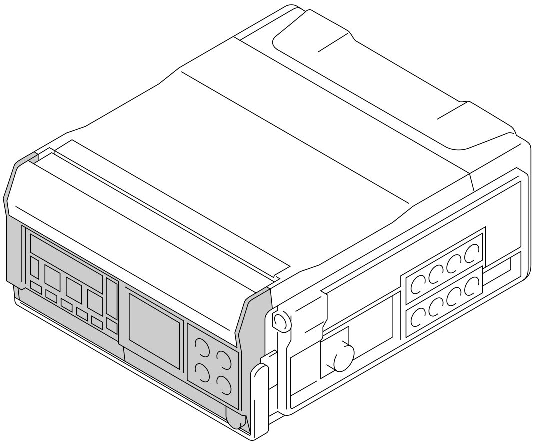


No.	Part No.	SP	Description
101	A-8269-458-A	o	CABINET (REAR) ASSY
102	A-8278-224-D	o	PARTITION ASSY
103	A-8278-225-G	o	PARTITION ASSY,CASE
104	X-3678-499-1	s	ASSY,ARM,LOCK
105	1-955-096-12	o	HARNESS, BATT-CON
106	3-169-347-05	o	HOLDER (B), ROLLER
107	3-169-424-01	s	SPRING, COMPRESSION
108	3-169-543-01	o	BRACKET (A), BT
109	3-169-569-01	o	CUSHION (B)
110	3-169-570-01	o	CUSHION (A)
111	3-308-704-00	s	SPRING, TENSION
112	3-328-345-01	s	SPRING, TENSION
113	3-691-393-01	o	BRACKET,CASE
114	3-691-394-01	o	BRACKET,CONNECTOR
115	3-691-518-01	o	PUSH BUTTON
116	3-691-526-01	o	ROLLER
117	3-691-534-02	o	SPRING(2),RETURN,ARM
118	3-691-535-01	o	SPRING(4),RETURN,ARM
119	3-691-595-02	o	RETAINER, BATTERY
120	3-703-357-06	l	PIN, PARALLEL (DIA. 1.6X14)
121	4-606-856-01	s	SPRING, TENSION

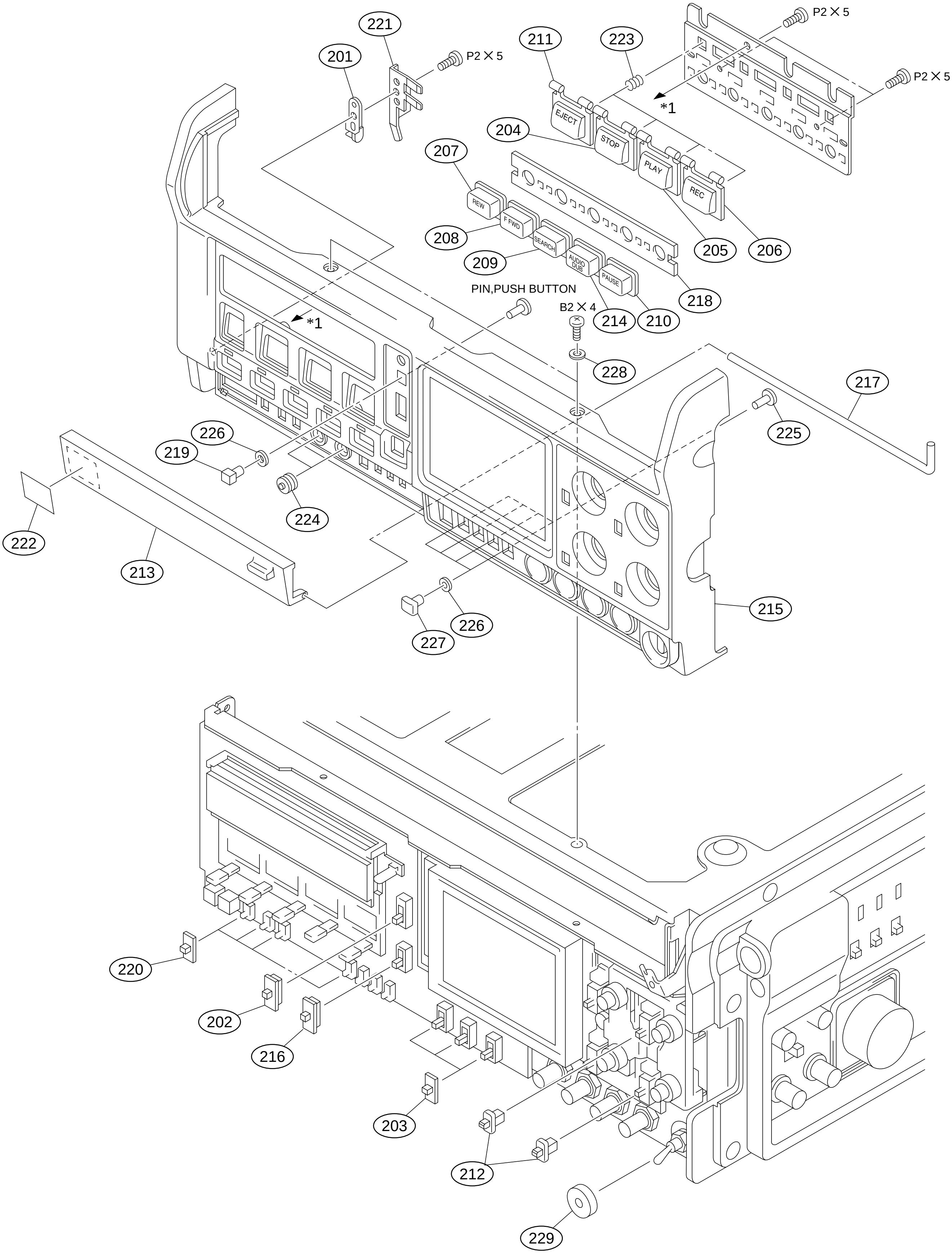
http://getMANUAL.com


101
105
114
119
113
*3
113
108
110
102
B2.6 × 5
B2.6 × 5
B2.6 × 5
B2.6 × 5
B3 × 6
*3
B2.6 × 5
*1
B3 × 6
B2.6 × 5
B3 × 6
B2.6 × 5
B2.6 × 5
PIN, SPRING
1 × 5
109
*2
118
*1
108
B2.6 × 5
B2.6 × 5
116
116
121
B2.6 × 4
E-2.0
E-2.0
E-2.0
E-2.0
111
E-2.0
116
112
B2 × 4
E-2.0
103
B2.6 × 5
117
B2.6 × 5
B2.6 × 4
115
120
104
B2.6 × 4
120
106
*2
B2.6 × 5

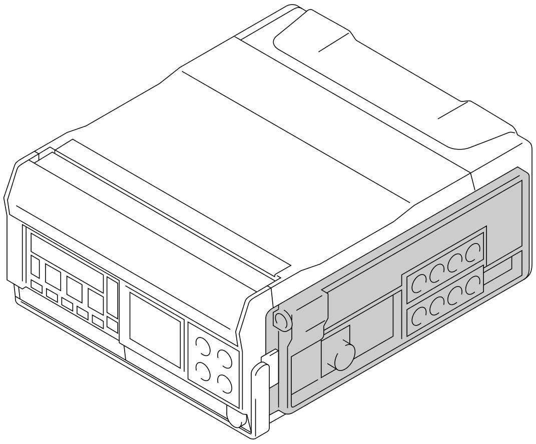
FRONT PANEL



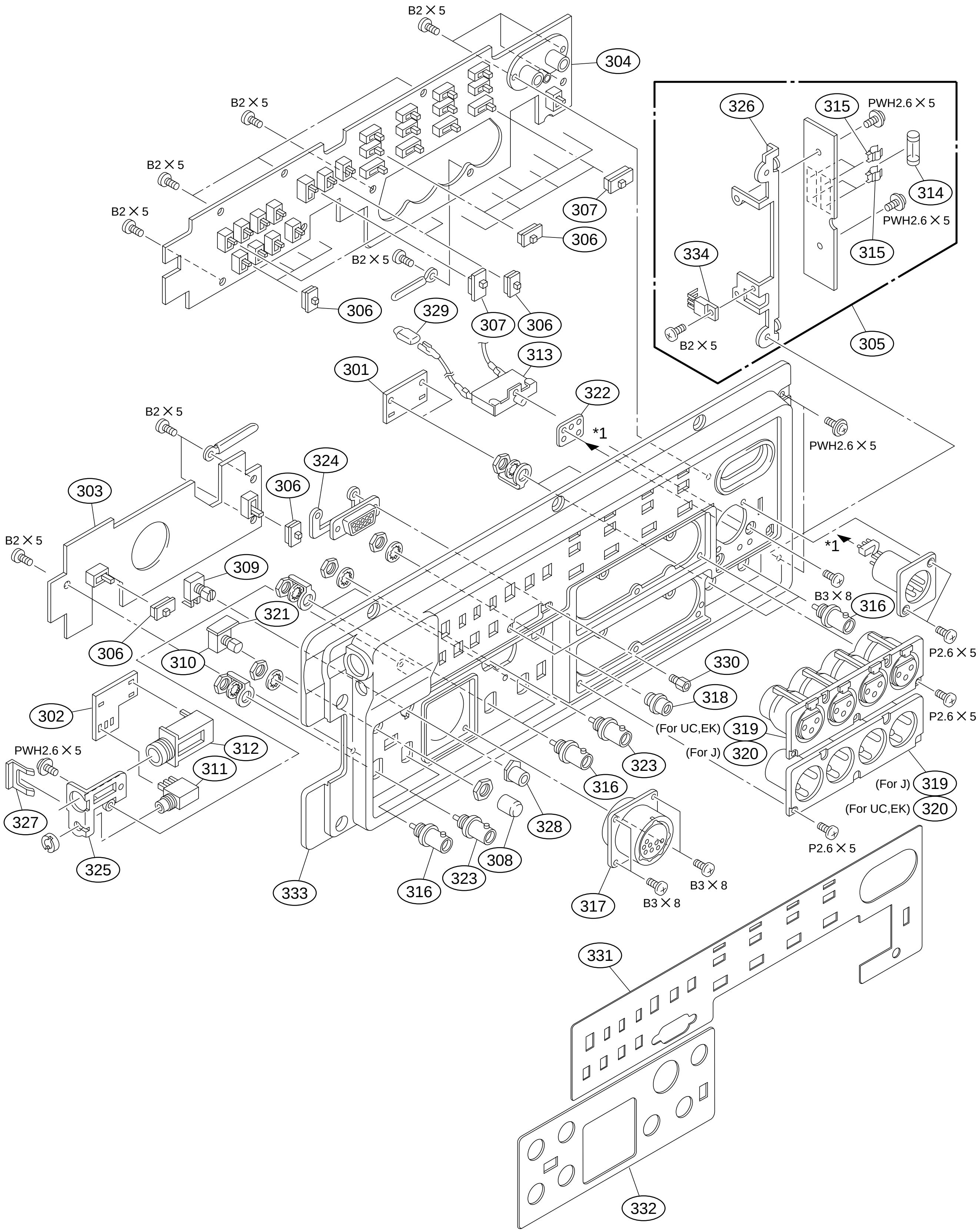
No.	Part No.	SP	Description
201	X-3165-755-1	o	RETAINER ASSY, TOGGLE
202	X-3165-862-1	s	KNOB ASSY (3P)
203	X-3165-863-1	s	KNOB ASSY (2P)
204	X-3166-129-1	o	BUTTON ASSY (STOP)
205	X-3166-130-1	o	BUTTON ASSY (PLAY)
206	X-3166-131-1	o	BUTTON ASSY (REC)
207	X-3166-132-1	o	BUTTON ASSY (REW)
208	X-3166-133-1	o	BUTTON ASSY (F FWD)
209	X-3166-134-1	o	BUTTON ASSY (SEARCH)
210	X-3166-136-1	o	BUTTON ASSY (PAUSE)
211	X-3166-137-1	o	BUTTON ASSY (EJECT)
212	X-3678-392-1	o	KNOB ASSY,SELECTION
213	X-3678-395-1	o	COVER ASSY, TC
214	X-3678-396-1	o	BUTTON ASSY (CUE DUB)
215	X-3678-397-2	o	PANEL(N) SUB ASSY, FRONT (for J, UC)
	X-3678-418-2	o	PANEL(P) SUB ASSY, FRONT (for SY)
216	X-3719-113-1	s	KNOB ASSY
217	3-169-388-01	o	SHAFT, TC COVER
218	3-169-389-01	o	CUSHION, KEY
219	3-169-390-01	s	BUTTON, RESET
220	3-170-161-01	s	KNOB, SW
221	3-173-283-02	o	PLATE, GROUND, FP
222	3-184-994-01	o	ISR STICKER(S)
223	3-571-850-00	s	SPRING, COMPRESSION
224	3-676-244-11	s	COVER, SW
225	3-686-085-01	o	PIN, PUSH BUTTON
226	3-686-086-01	o	CUSHION, BUTTON
227	3-691-507-01	o	BUTTON,MENU
228	3-701-437-21	s	WASHER
229	3-729-007-01	o	PLATE, ORNAMENTAL, TOGGLE SW


P2 X 5
P2 X 5
P2 X 5
*1
EJECT
STOP
PLAY
REC
REW
F FWD
SEARCH
AUDIO DUB
PAUSE
PIN,PUSH BUTTON
B2 X 4
*1

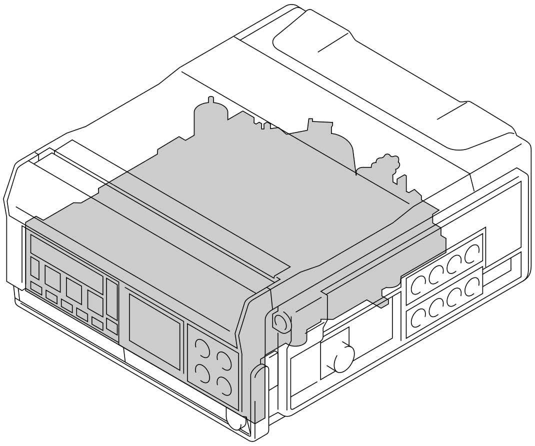
CONNECTOR PANEL



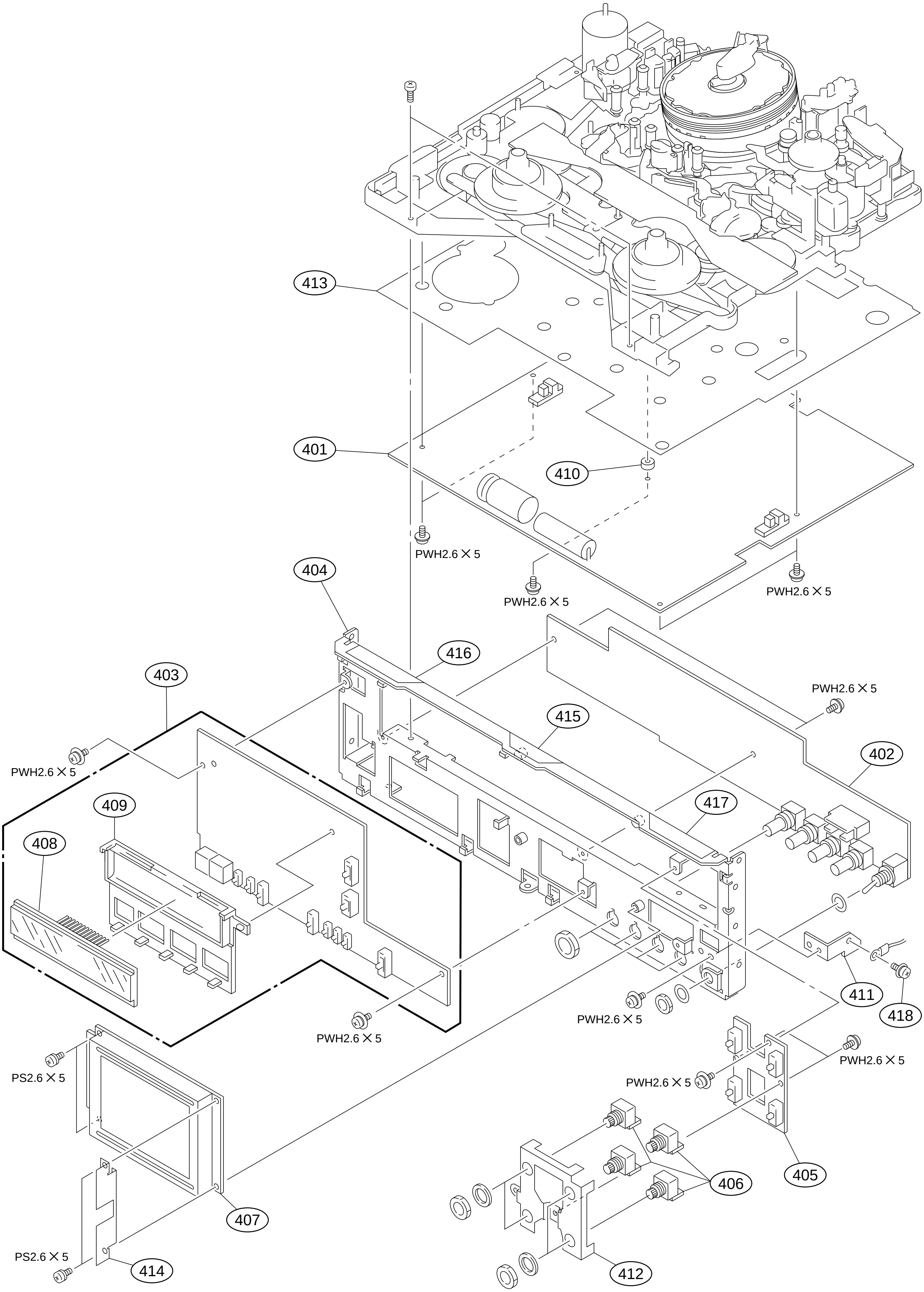
No.	Part No.	SP	Description
301	A-8272-756-A	o	MOUNTED CIRCUIT BOARD, CON-18
302	A-8272-757-A	o	MOUNTED CIRCUIT BOARD, DUS-339
303	A-8276-932-A	o	MOUNTED CIRCUIT BOARD, CC-66
304	A-8276-936-A	o	MOUNTED CIRCUIT BOARD, CP-260J (for J)
	A-8276-934-A	o	MOUNTED CIRCUIT BOARD, CP-260 (for UC, SY)
305	A-8276-938-A	o	MOUNTED CIRCUIT BOARD, FU-63
306	X-3166-331-1	s	KNOB ASSY (2 POSI)
307	X-3166-332-1	s	KNOB ASSY (3 POSI)
308	X-3682-814-0	s	KNOB ASSY, CONTROL
309	1-241-521-11	s	RES, VAR, CARBON 5K
310	1-241-577-11	s	RES, VAR, CARBON 20K/20K
311	1-507-743-21	s	JACK, STEREO MINIATURE
312	1-507-863-51	s	JACK, LARGE TYPE
313	⚠ 1-532-525-31	s	BREAKER, CIRCUIT
314	⚠ 1-532-749-11	s	FUSE, GLASS TUBE
315	1-533-189-11	s	HOLDER, FUSE
316	1-561-336-00	s	CONNECTOR, COAXIAL
317	1-562-245-11	o	RECEPTACLE,CONNECTOR 26P
318	1-565-072-11	s	CONNECTOR, ROUND TYPE (RF) 4P
319	1-566-616-11	s	CONNECTOR, XLR (F) (4 GANG) 3P
320	1-566-617-11	s	CONNECTOR, XLR (M) (4 GANG) 3P
321	1-657-814-11	o	PRINTED CIRCUIT BOARD, VR-205
322	1-658-773-11	o	PRINTED CIRCUIT BOARD, DC-85
323	1-774-157-11	s	CONVERTER, COAXIAL CONNECTOR
324	2-139-018-01	s	NUT (D SUB 9P), PLATE
325	3-169-382-02	o	BRACKET, HEADPHONE
326	3-169-383-01	o	BRACKET, PANEL
327	3-169-384-01	o	PLATE, SNAP
328	3-169-385-01	o	GUARD, VR
329	3-169-455-01	s	SLEEVE, INSULATING
330	3-673-910-31	s	SCREW, CONNECTOR
331	3-691-557-01	o	SHEET(L)J,CONNECTOR PANEL (for J)
	3-691-560-01	o	SHEET(L)UC,CONNECTOR PANEL (for UC, SY)
332	3-691-558-02	o	SHEET(S),CONNECTOR PANEL
333	3-691-561-02	o	PANEL,CONNECTOR
334	8-729-034-88		TRANSISTOR 2SK2205


B2 × 5
B2 × 5
PWH2.6 × 5
B2 × 5
B2 × 5
PWH2.6 × 5
B2 × 5
B2 × 5
*1
B2 × 5
PWH2.6 × 5
B2 × 5
*1
B3 × 8
P2.6 × 5
P2.6 × 5
(For UC,EK)
(For J)
PWH2.6 × 5
(For J)
(For UC,EK)
P2.6 × 5
B3 × 8
B3 × 8

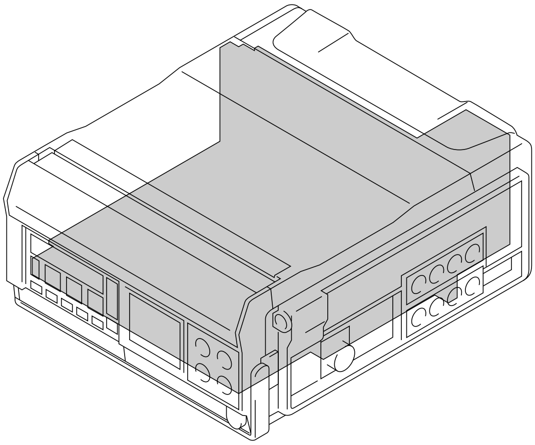
FRONT CHASSIS AND MOUNTED CIRCUIT BOARDS



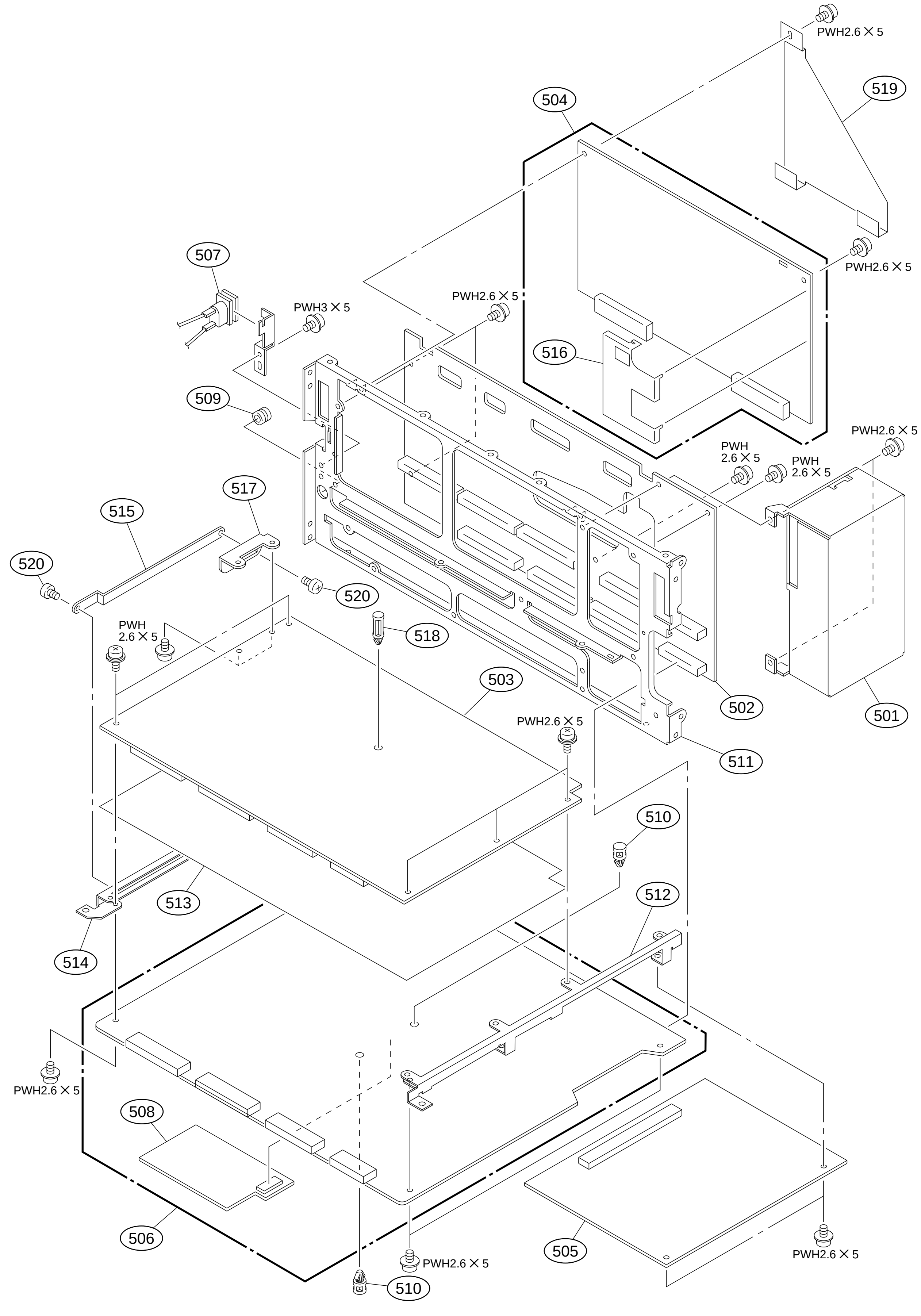
No.	Part No.	SP	Description
401	A-8276-910-A	o	MOUNTED CIRCUIT BOARD, SST-3 (for J, UC)
	A-8276-912-A	o	MOUNTED CIRCUIT BOARD, SST-3P (for SY)
402	A-8276-930-A	o	MOUNTED CIRCUIT BOARD, ADA-44
403	A-8276-948-A	o	MOUNTED CIRCUIT BOARD, KY-315 (for J, UC)
	A-8276-950-A	o	MOUNTED CIRCUIT BOARD, KY-315P (for, SY)
404	X-3678-391-4	o	CHASSIS,FRONT ASSY
405	1-657-808-11	o	PRINTED CIRCUIT BOARD, VR-194
406	1-657-809-11	o	PRINTED CIRCUIT BOARD, VR-206
407	1-801-022-11	s	DISPLAY MODULE, LIQUID CRYSTEL
408	1-809-345-11	s	DISPLAY PANEL, LIQUID CRYSTAL
409	3-169-546-02	o	HOLDER, LCD
410	3-545-567-00	o	TIRE, FF
411	3-691-395-03	o	PLATE,FIXED BOARD
412	3-691-398-01	o	PLATE,BRACKET VOLUME
413	3-691-580-02	o	INSULATOR, SST
414	3-695-882-01	o	PLATE, SHIELD
415	3-695-883-02	o	TAPE(M), PROTECTOR
416	3-695-884-02	o	TAPE(L), PROTECTOR
417	3-695-885-02	o	TAPE(R), PROTECTOR
418	4-950-558-02	o	SCREW (S)


PWH2.6 × 5
PWH2.6 × 5
PWH2.6 × 5
PWH2.6 × 5
PWH2.6 × 5
PWH2.6 × 5
PWH2.6 × 5
PS2.6 × 5
PWH2.6 × 5
PWH2.6 × 5
PS2.6 × 5

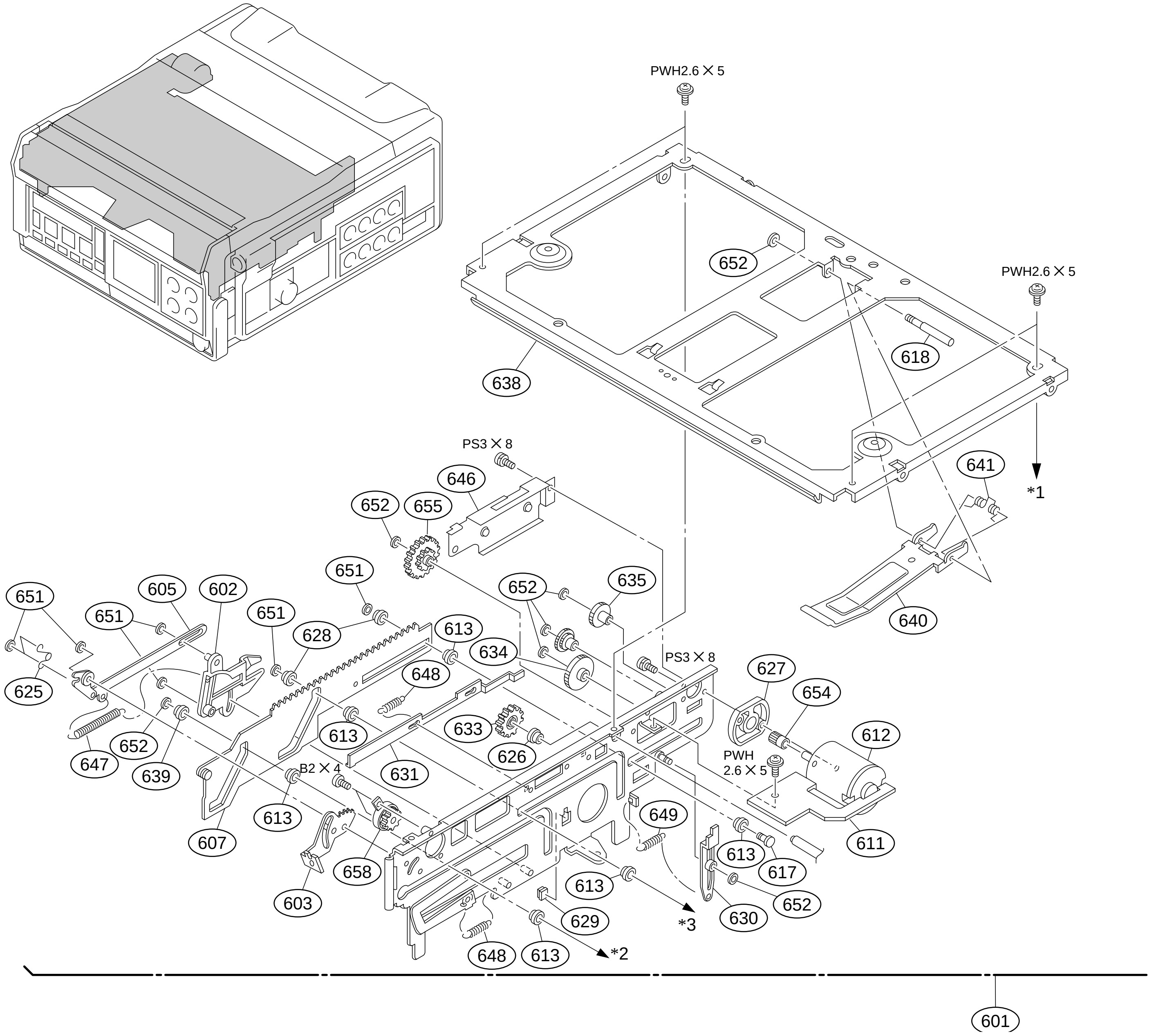
REAR CHASSIS AND VIDEO BOARDS



No.	Part No.	SP	Description
501	A-8269-442-A	s	POWER ASSY (for J)
	A-8269-463-A	s	POWER ASSY (for UC, SY)
502	A-8276-909-A	o	MOUNTED CIRCUIT BOARD, MB-601
503	A-8276-914-A	o	MOUNTED CIRCUIT BOARD, VPR-12 (for J, UC)
	A-8276-942-A	o	MOUNTED CIRCUIT BOARD, VPR-12P (for SY)
504	A-8276-922-A	o	MOUNTED CIRCUIT BOARD, EQ-54
505	A-8276-928-A	o	MOUNTED CIRCUIT BOARD, DIF-31
506	A-8276-944-A	o	MOUNTED CIRCUIT BOARD, DPR-62 (for J, UC)
	A-8276-946-A	o	MOUNTED CIRCUIT BOARD, DPR-62P (for SY)
507	1-507-905-11	s	JACK, DC
508	1-658-297-11	o	PRINTED CIRCUIT BOARD, APR-20
509	2-377-709-00	o	BUSHING, RUBBER
510	3-682-057-11	s	SPACER (SMALL)
511	3-691-388-01	o	CHASSIS,REAR
512	3-691-389-03	o	HOLDER,R
513	3-691-390-02	o	SHIELD PLATE, VIDEO
514	3-691-391-04	o	HOLDER,L
515	3-691-396-01	o	SUPPORT,CHASSIS
516	3-691-503-02	o	CASE,SHIELD LA
517	3-691-515-02	o	RETAINER,STAY
518	3-691-950-01	o	SPACER, P.C.B
519	3-693-971-01	o	PLATE, BLIND
520	4-950-558-02	o	SCREW (S)


PWH2.6 × 5
PWH2.6 × 5
PWH3 × 5
PWH2.6 × 5
PWH2.6 × 5
PWH 2.6 × 5
PWH 2.6 × 5
PWH 2.6 × 5
PWH2.6 × 5
PWH2.6 × 5
PWH2.6 × 5
PWH2.6 × 5

CASSETTE COMPARTMENT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PWH2.6 × 5
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638
641
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PS3 × 8
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655
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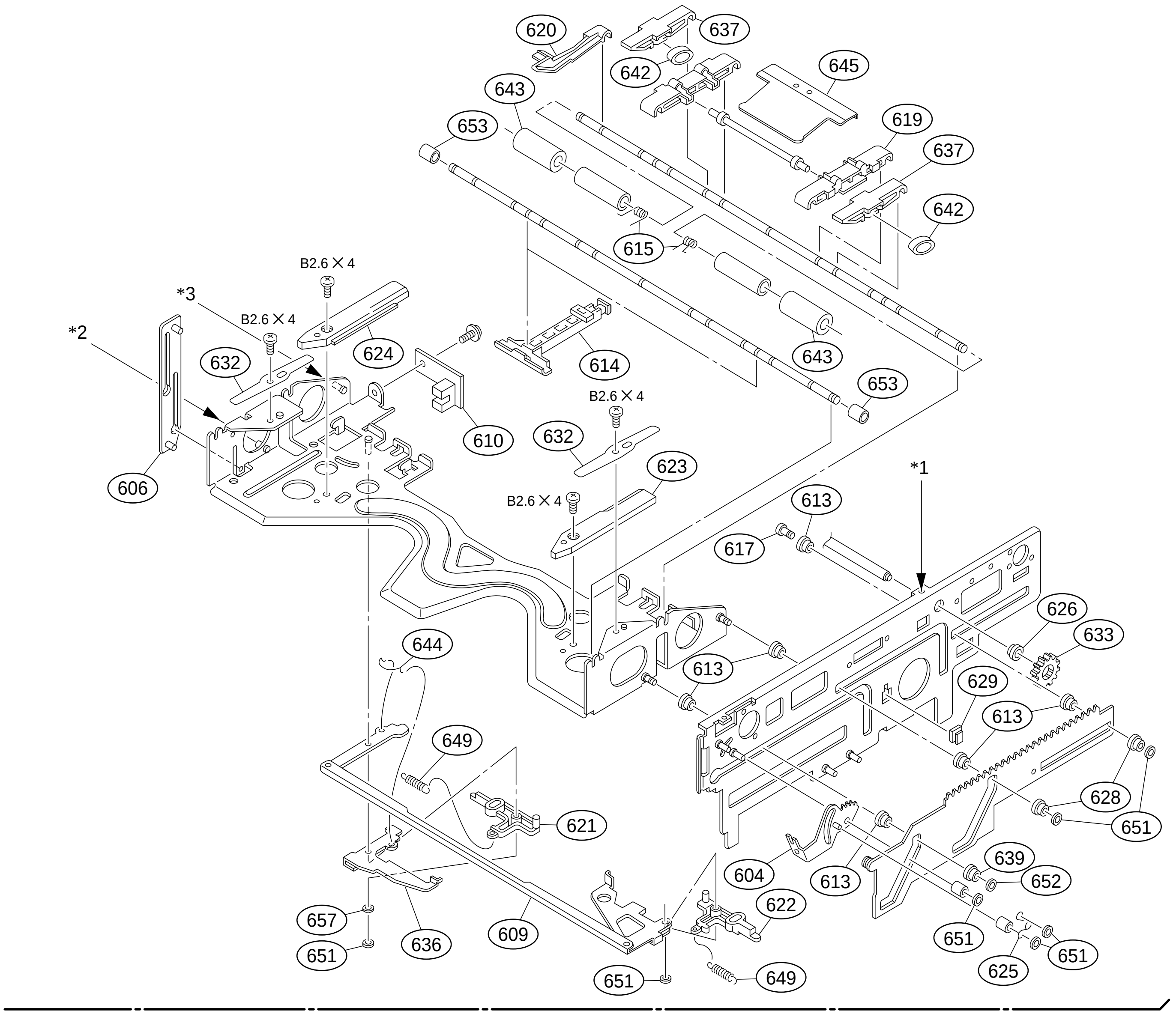
640
651
605
602
651
651
628
613
634
PS3 × 8
627
654
625
648
612
613
633
626
PWH
2.6 × 5
647
652
639
B2 × 4
631
649
611
613
607
613
617
658
603
613
652
630
629
*3
648
613
*2
601

No.	Part No.	SP	Description
601	A-8269-732-A	s	CASSETTE COMPARTMENT ASSY
602	X-3165-739-1	o	CAM (L) ASSY
603	X-3165-740-1	o	ARM (L) ASSY, FF
604	X-3165-741-1	o	ARM (R) ASSY, FF
605	X-3165-742-1	o	ARM (L) ASSY, SWITCHING
606	X-3165-746-3	o	ARM ASSY, RACK DRIVING
607	X-3165-747-2	o	RACK (L) ASSY, C
608	X-3165-748-2	o	RACK (R) ASSY, C
609	X-3165-770-2	o	LEVER (R) ASSY, PUSH-OUT
610	1-638-701-12	o	PRINTED CIRCUIT BOARD, CS-25
611	1-638-702-11	o	PRINTED CIRCUIT BOARD, CS-26
612	1-698-335-11	s	MOTOR, DC (SVD-1489)
613	3-169-352-02	o	ROLLER (A), C
614	3-169-441-01	o	RETAINER (S), CASSETTE
615	3-169-444-01	o	SPRING (R), DETECTION
616	3-169-445-01	o	SPRING (L), DETECTION
617	3-169-456-01	o	SHAFT (R), ROLLER
618	3-169-457-01	o	SHAFT, ARM, LOCK
619	3-169-458-02	o	ARM, JOINT
620	3-169-460-01	o	ARM, L DETECTION
621	3-169-463-03	o	ARM (L), PUSH-OUT
622	3-169-464-03	o	ARM (R), PUSH-OUT
623	3-169-466-03	o	GUIDE (R), CASSETTE
624	3-169-467-01	o	GUIDE (L), CASSETTE
625	3-169-468-02	o	SPRING (A), TOGGLE
626	3-169-469-01	o	BEARING
627	3-169-470-02	o	WASHER, C MOTOR
628	3-169-471-01	s	ROLLER (B), C
629	3-169-472-01	o	CAM, PUSH-OUT
630	3-169-473-01	o	SHUTTER, C DOWN

http://getMANUAL.com


620
637
642
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643
653
619
637
642
615
B2.6 × 4
*3
B2.6 × 4
*2
632
624
614
643
653
B2.6 × 4
610
632
623
606
B2.6 × 4
*1
613
617
626
633
644
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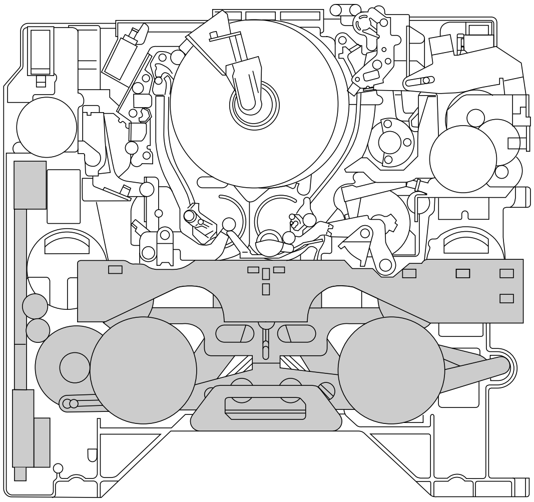
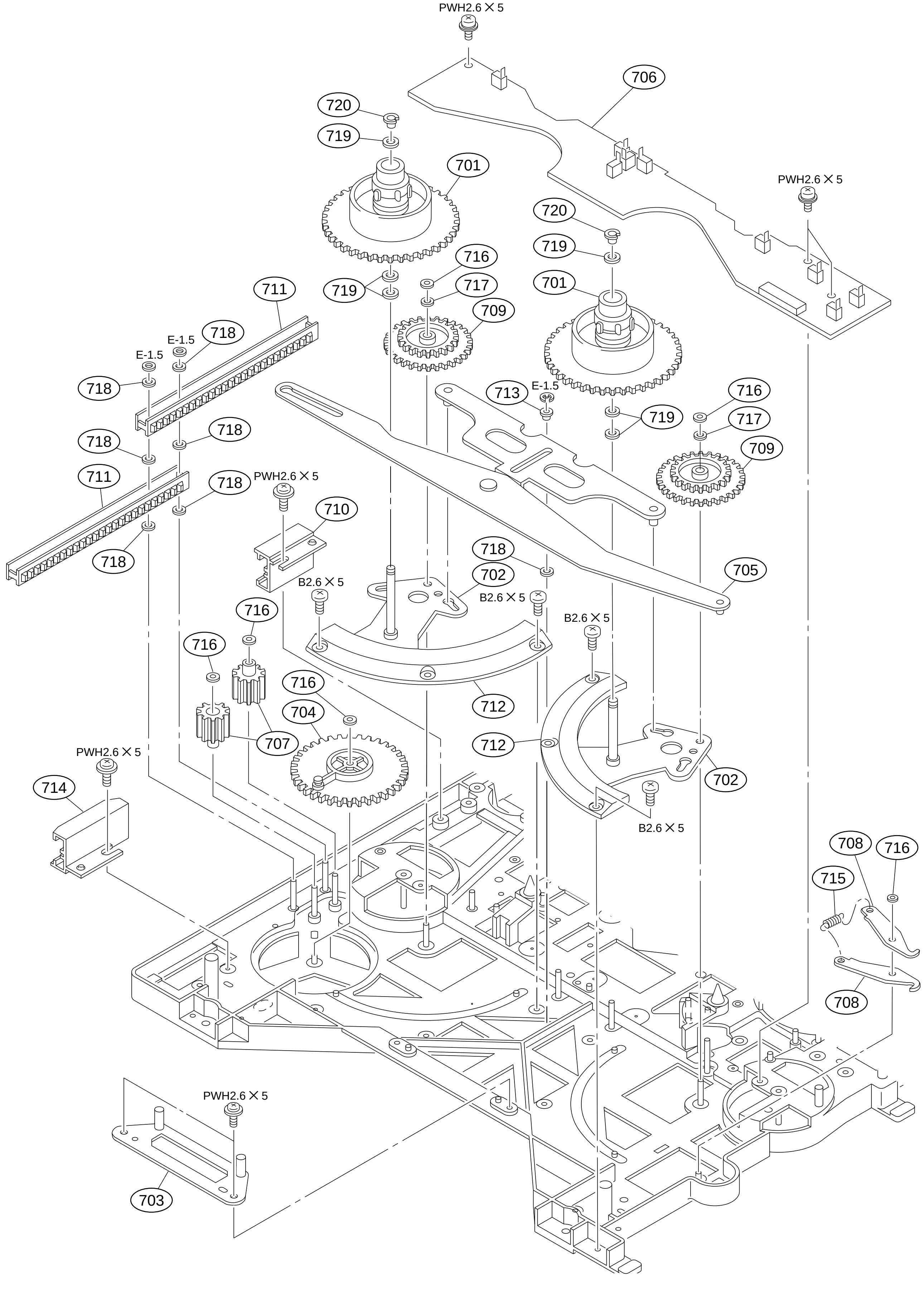
629
613
649
628
621
651
639
604
613
652
622
657
636
609
651
651
625
651
651
649

No.	Part No.	SP	Description
631	3-169-474-02	o	SHUTTER, C UP
632	3-169-475-02	o	SPRING, CASSETTE RETAINER
633	3-169-477-02	s	GEAR (5), C
634	3-169-479-03	s	GEAR (3), C
635	3-169-480-03	s	GEAR (2), C
636	3-169-482-02	o	LEVER (L), PUSH-OUT
637	3-169-499-03	o	LEVER, CORRECTION DETECTION
638	3-169-557-11	o	STAY, C
639	3-170-821-01	s	ROLLER (C), C
640	3-170-822-01	o	ARM, C LOCK
641	3-170-823-02	s	SPRING, LOCK ARM
642	3-172-394-01	o	SPACER, RUBBER
643	3-172-873-01	s	ROLLER, CASSETTE RETAINER
644	3-172-874-02	s	SPRING, C IN SHUTTER
645	3-172-876-02	o	SPRING (A), C STOPPER
646	3-178-212-02	s	SUPPORT, SHAFT, C GEAR
647	3-556-464-00	s	SPRING, TENSION
648	3-578-388-00	s	SPRING, TENSION
649	3-515-167-00	s	SPRING, TENSION
650	3-657-841-01	s	SPACER (2X2)
651	3-669-465-01	s	WASHER (1.5), STOPPER
652	3-676-387-00	s	POLY-SLIDER (DIA.1.6)
653	3-691-575-01	o	PETAINER,L CASSETTE
654	3-694-266-01	s	GEAR,C PINION
655	3-694-286-01	s	GEAR,C4
656	3-695-848-01	s	GEAR,C1
657	3-701-437-01	s	WASHER
658	3-712-786-11	s	DAMPER, OIL

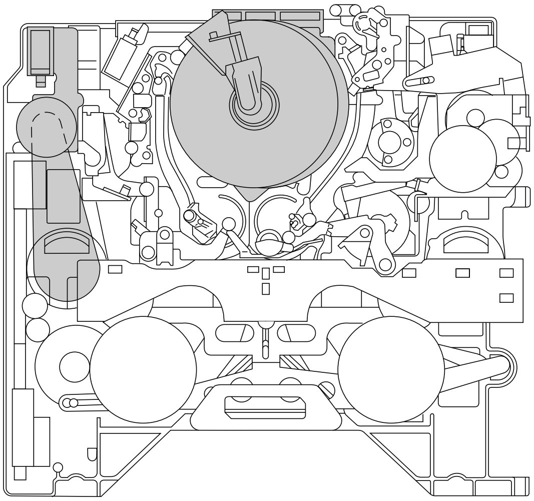
S/T REEL TABLES



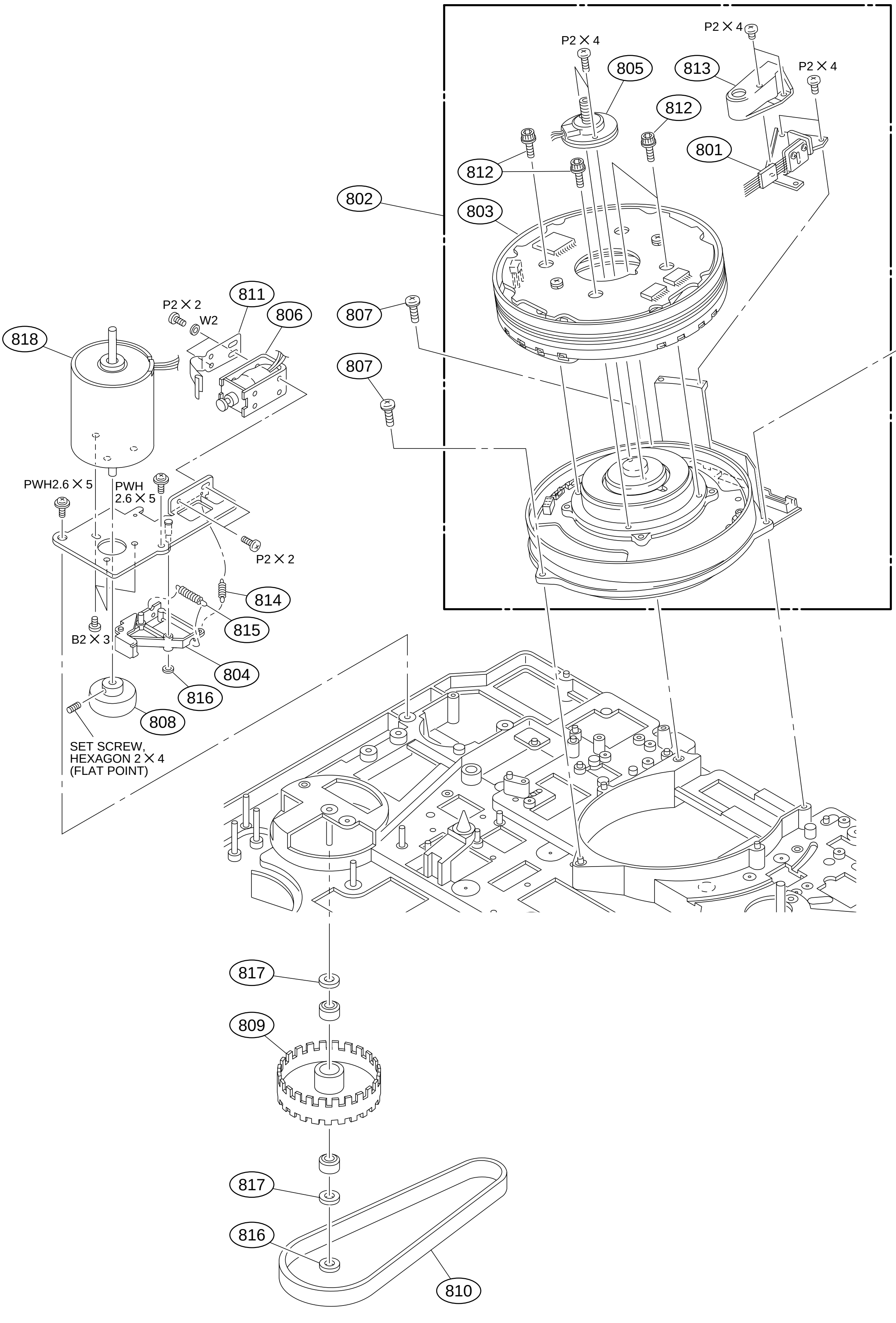
No.	Part No.	SP	Description
701	A-6739-095-A	s	TABLE ASSY, REEL
702	X-3165-760-1	o	ARM ASSY, REEL
703	X-3165-761-1	o	BASE ASSY, C SUPPORT
704	X-3165-763-1	s	GEAR ASSY, OSCILLATION
705	X-3165-775-2	o	LINK ASSY, SLIDE
706	1-657-800-11	o	PRINTED CIRCUIT BOARD, SE-233
707	3-169-500-01	s	GEAR, IDLE
708	3-169-501-02	o	PLATE, LIMITER
709	3-169-504-01	s	GEAR, RELAY
710	3-169-509-01	s	RAIL, GUIDE
711	3-169-511-01	o	RACK, DRIVING
712	3-169-512-01	o	RETAINER, REEL ARM
713	3-171-987-01	s	ROLLER (G)
714	3-172-123-01	s	RAIL (F), GUIDE
715	3-549-014-00	s	SPRING, TENSION
716	3-676-387-00	s	POLY-SLIDER (DIA.1.6)
717	3-701-437-11	s	WASHER
718	3-701-437-21	s	WASHER
719	3-701-439-11	s	WASHER
720	3-703-074-01	s	CAP 3, SHAFT


PWH2.6 × 5
PWH2.6 × 5
E-1.5
E-1.5
E-1.5
PWH2.6 × 5
B2.6 × 5
B2.6 × 5
B2.6 × 5
PWH2.6 × 5
B2.6 × 5
PWH2.6 × 5

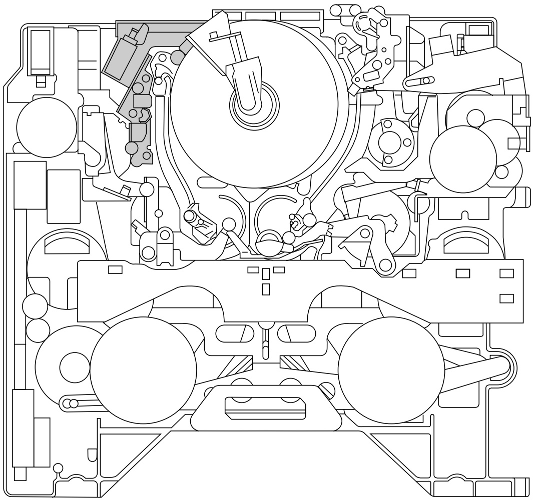
DRUM AND S-SIDE REEL MOTOR



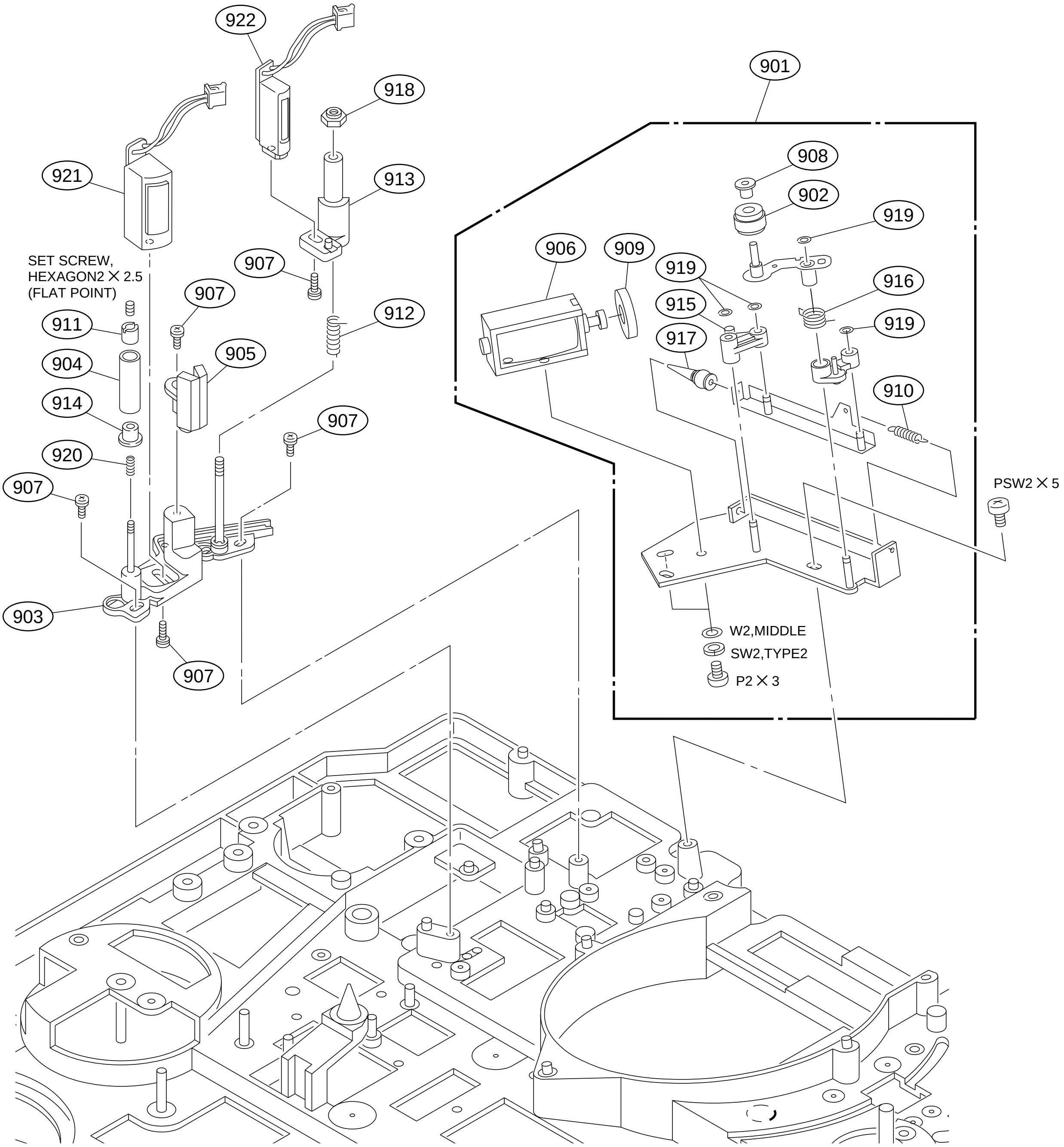
No.	Part No.	SP	Description
801	A-8263-460-A	s	BRUSH ASSY
802	A-8269-262-A	s	DRUM ASSY, DJH-11A-R (for NTSC)
	A-8269-264-A	s	DRUM ASSY, DJH-12A-R (for PAL)
803	A-8269-263-A	s	UPPER DRUM, DJH-11-R (for NTSC)
	A-8269-261-A	s	UPPER DRUM, DJH-12-R (for PAL)
804	X-3165-731-2	s	ARM ASSY, BRAKE
805	1-251-207-11	s	RING ASSY, SLIP
806	1-454-334-61	s	SOLENOID, PLUNGER
807	2-640-315-01	o	SCREW (M2X5), SMALL, +P, SW
808	3-169-370-03	o	PULLEY, MOTOR
809	3-169-503-03	s	PULLEY (B), RELAY
810	3-172-003-01	s	BELT, DRIVING
811	3-173-411-01	s	SPRING, BRAKE PLATE
812	3-185-531-01	s	BOLT M2X3, W HEXAGON
813	3-185-532-01	o	COVER, BRUSH
814	3-307-374-00	s	SPRING, TENSION
815	3-642-482-00	s	SPRING, TENSION
816	3-676-387-00	s	POLY-SLIDER (DIA.1.6)
817	3-701-437-21	s	WASHER
818	8-835-441-01	s	MOTOR R432276751A


P2 × 4
P2 × 4
P2 × 4
P2 × 2
W2
PWH2.6 × 5
PWH
2.6 × 5
P2 × 2
B2 × 3
SET SCREW,
HEXAGON 2 × 4
(FLAT POINT)

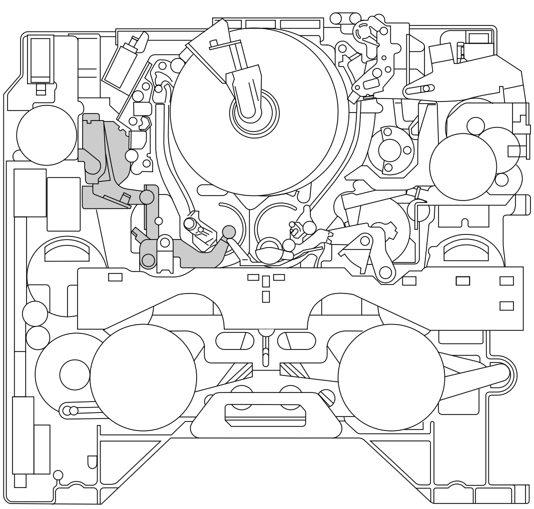
CTL HEAD AND VIDEO HEAD CLEANER



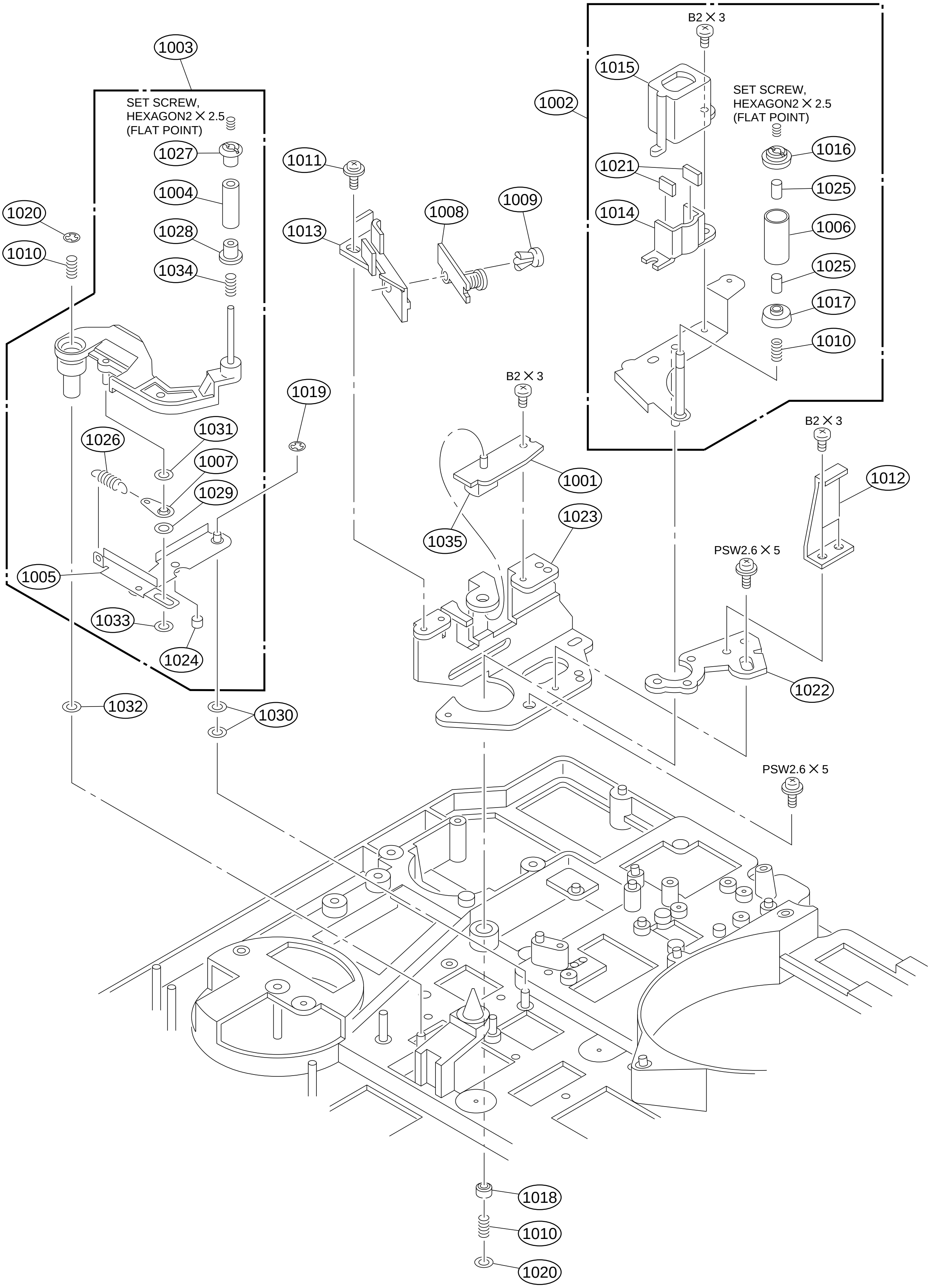
No.	Part No.	SP	Description
901	A-8278-220-B	o	CLEANER ASSY,VIDEO HEAD
902	X-3167-281-2	s	ROLLER ASSY, V CLEANING
903	X-3678-118-2	o	BASE ASSY,CTL FE
904	X-3678-129-2	s	ROLLER (2)ASSY,RESIN
905	X-3678-142-1	o	CLERNER ASSY, TAPE
906	1-454-607-21	s	SOLENOID, PLUNGER
907	2-640-315-01	o	SCREW (M2X5), SMALL, +P, SW
908	3-182-765-02	s	SPACER, CR
909	3-183-901-01	s	WASHER, CL
910	3-527-188-00	s	SPRING, TENSION
911	3-679-729-02	s	FLANGE,UPPER
912	3-680-043-01	s	SPRING,CTL
913	3-680-044-01	o	BRACKET,CTL
914	3-680-230-01	s	FLANGE,UNDER
915	3-691-552-01	o	LEVER,SOLENOID
916	3-691-555-01	o	SPRING,TORSION
917	3-691-562-01	o	SHOCK ABSORBER
918	3-698-829-01	s	NUT (M2)
919	3-726-829-01	l	WASHER, STOPPER
920	3-729-011-01	s	SPRING, COMPRESSION
921	8-825-770-73	s	HEAD, FE EF291-21
922	8-825-779-71	s	CTL HEAD (PS244-21D)


SET SCREW,
HEXAGON2 × 2.5
(FLAT POINT)
PSW2 × 5
W2,MIDDLE
SW2,TYPE2
P2 × 3

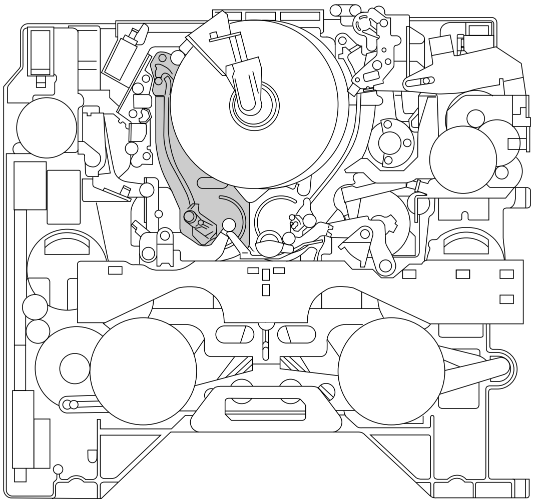
TENSION REGULATOR AND S-SIDE DRAWING ARM



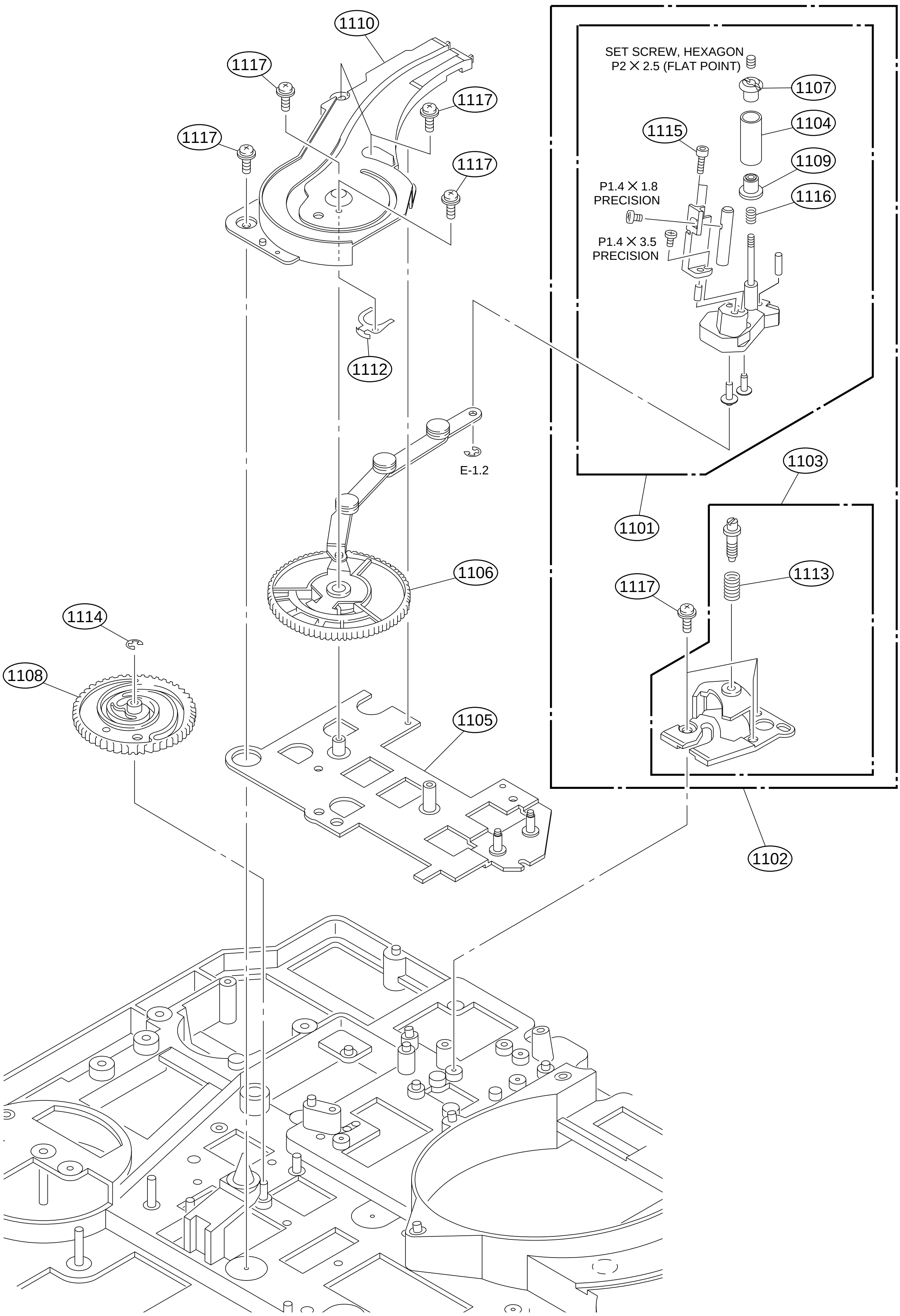
No.	Part No.	SP	Description
1001	A-6754-272-A	o	MOUNTED CIRCUIT BOARD, TR-57
1002	A-8269-451-A	s	TENSION REGULATOR ASSY
1003	A-8269-452-A	o	ARM ASSY, S
1004	X-3678-091-2	s	ROLLER ASSY
1005	X-3678-388-1	o	DRAWING ARM,ASSY
1006	X-3678-389-1	s	S-TEN ROLLER,ASSY
1007	X-3678-390-1	o	LAG,S-ARM,ASSY
1008	1-543-316-21	s	HEAD, SENSING (SMALL TYPE)
1009	2-279-715-01	s	RIVET, NYLON
1010	2-618-901-00	s	SPRING
1011	2-640-315-01	o	SCREW (M2X5), SMALL, +P, SW
1012	3-169-302-02	o	SPRING (TR), PLATE
1013	3-169-304-01	o	BASE, END SENSOR
1014	3-169-305-01	o	PLATE, YOKE
1015	3-169-336-01	o	GUARD, DME
1016	3-174-315-01	s	FLANGE (UPPER)
1017	3-174-316-02	s	FLANGE (LOWER)
1018	3-669-443-01	s	BEARING, BALL (NO FLANGE)
1019	3-669-465-01	s	WASHER (1.5), STOPPER
1020	3-669-595-00	s	WASHER (2), STOPPER
1021	3-680-828-01	o	MAGNET
1022	3-691-364-01	o	PLATE, TENTION ADJUSTMENT
1023	3-691-376-01	o	BASE,S-TEN
1024	3-691-378-01	s	ROLLER B
1025	3-691-380-01	s	ROLLER C
1026	3-691-381-01	s	SPRING,EXTENSION
1027	3-691-382-02	s	FLANGE,UPPER
1028	3-691-383-02	s	FLANGE,UNDER
1029	3-701-436-11	s	WASHER, 1.6 POLYETHYLENE
1030	3-701-436-21	s	WASHER, POLYEHTHYLENE
1031	3-701-437-01	s	WASHER
1032	3-701-437-11	s	WASHER
1033	3-726-829-01	l	WASHER, STOPPER
1034	3-729-011-01	s	SPRING, COMPRESSION
1035	8-745-001-07	s	DM-230-1


SET SCREW,
HEXAGON2 × 2.5
(FLAT POINT)
B2 × 3
SET SCREW,
HEXAGON2 × 2.5
(FLAT POINT)
B2 × 3
B2 × 3
PSW2.6 × 5
PSW2.6 × 5

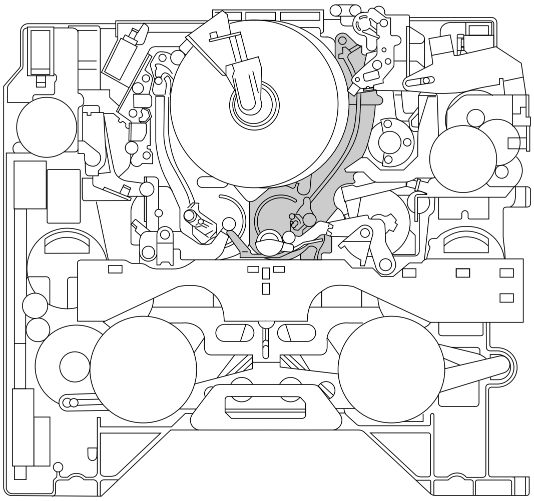
S-SIDE THREADING LINK



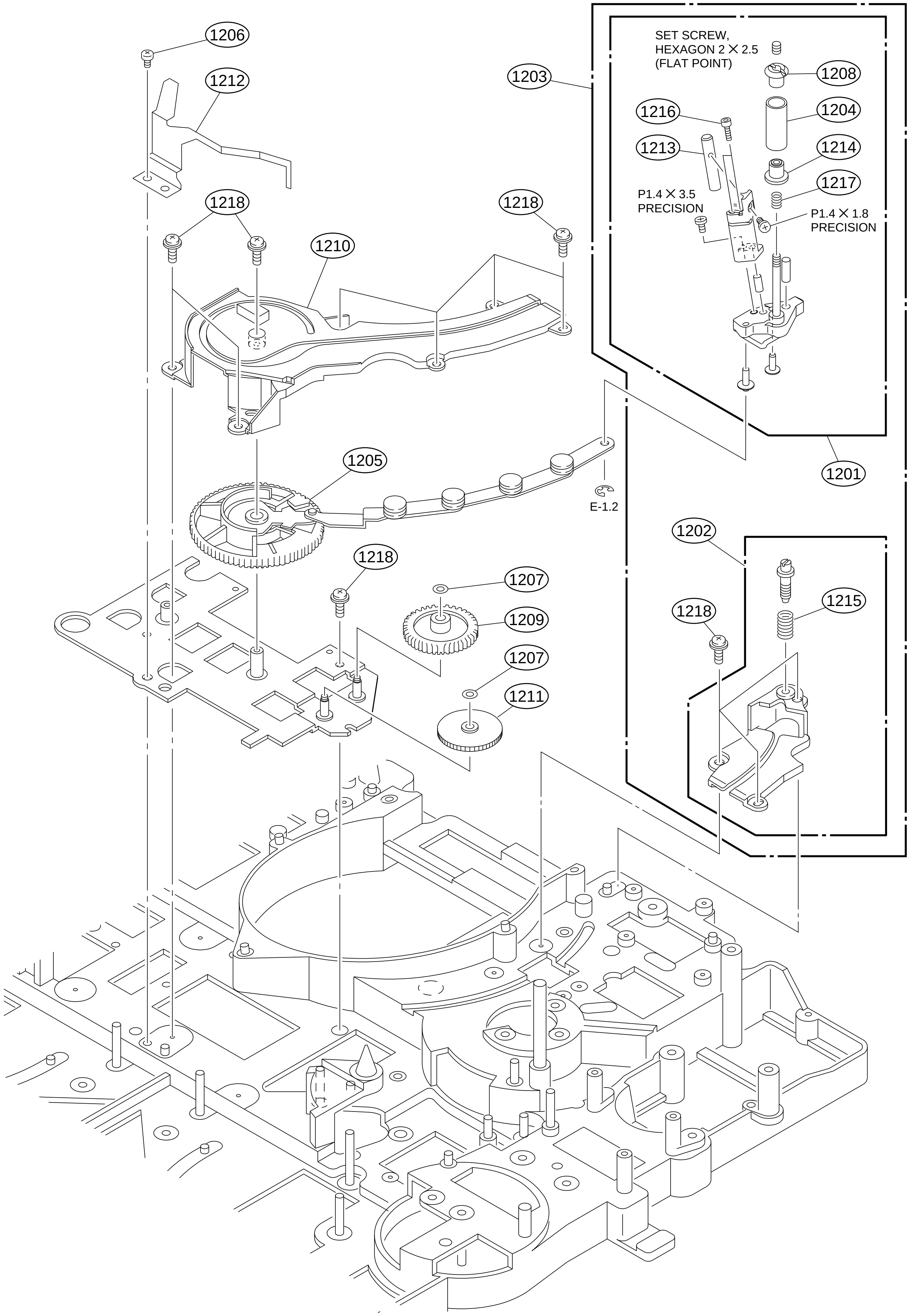
No.	Part No.	SP	Description
1101	A-8269-454-B	s	SLIDER ASSY, S
1102	A-8272-676-A	s	BLOCK ASSY, S DRAWER
1103	A-8278-032-C	o	CATCHER S ASSY
1104	X-3678-091-2	s	ROLLER ASSY
1105	X-3678-380-2	o	BASE,THREADING GEAR ASSY
1106	X-3678-464-1	o	GEAR ASSY,THREADING S
1107	3-679-729-02	s	FLANGE,UPPER
1108	3-679-777-04	o	GEAR,ARM,DRAWER
1109	3-680-230-01	s	FLANGE,UNDER
1110	3-691-360-02	o	RAIL,S
1111	3-691-577-01	s	GUIDE,SLANT
1112	3-691-880-01	o	LINK PROTECTOR
1113	3-716-167-01	s	SPRING, COMPRESSION
1114	3-726-829-01	l	WASHER, STOPPER
1115	3-727-809-01	s	BOLT (M1.4X5), HEXAGON SOCKET
1116	3-729-011-01	s	SPRING, COMPRESSION
1117	3-729-013-21	s	SCREW(M1.4X2.5),WASHERHEAD(+P)


SET SCREW, HEXAGON
P2 X 2.5 (FLAT POINT)
P1.4 X 1.8
PRECISION
P1.4 X 3.5
PRECISION
E-1.2

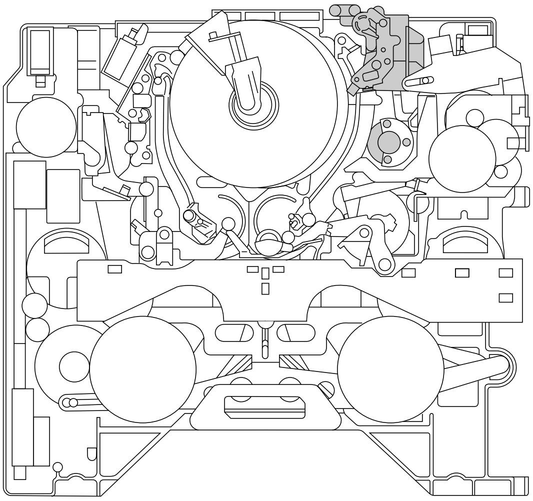
T-SIDE THREADING LINK



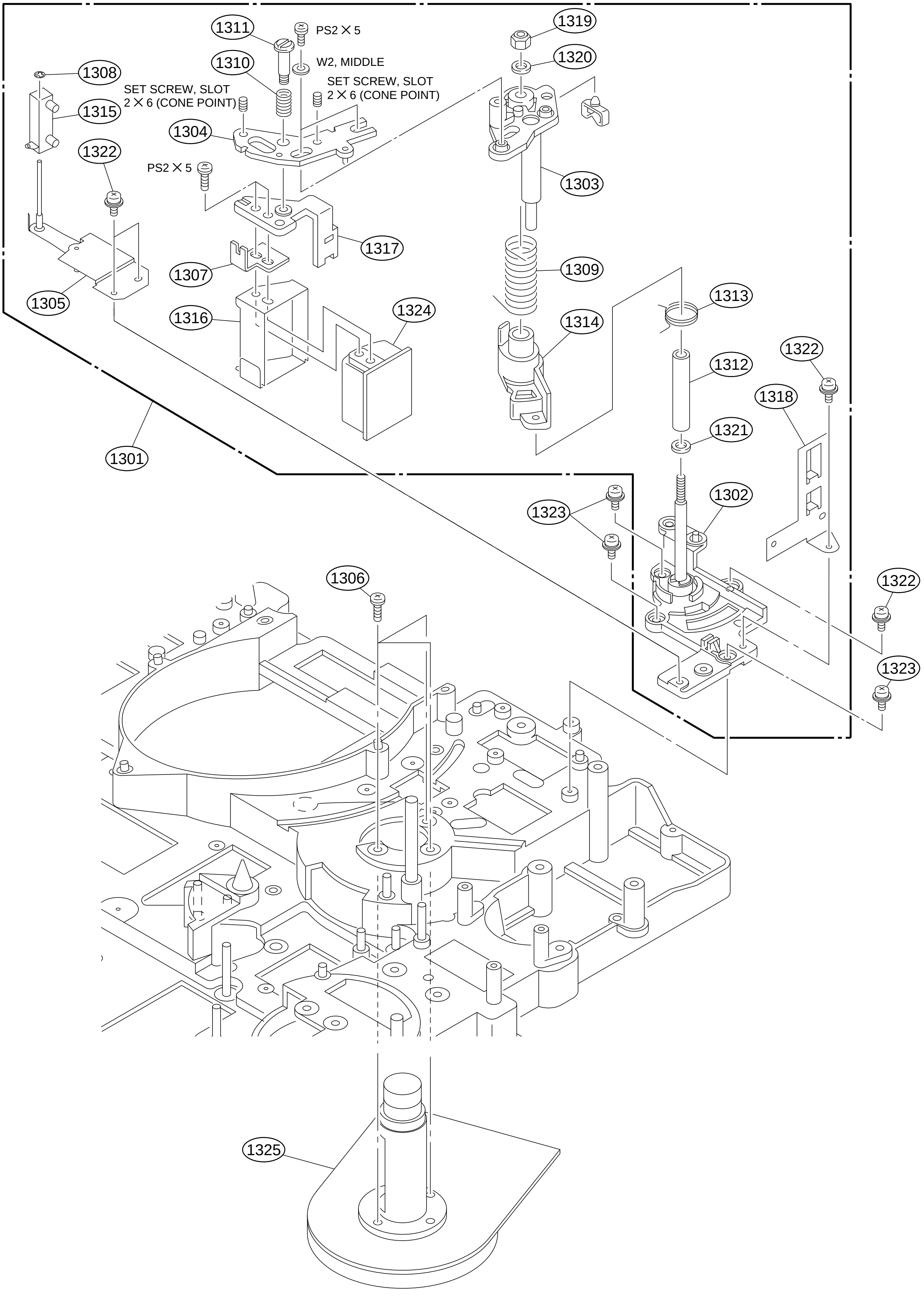
No.	Part No.	SP	Description
1201	A-8269-453-B	s	SLIDER ASSY, T
1202	A-8278-033-B	o	CATCHER T ASSY
1203	A-8278-667-A	s	BLOCK ASSY, T DRAWER
1204	X-3678-091-2	s	ROLLER ASSY
1205	X-3678-379-2	o	GEAR ASSY,THREADING T
1206	2-640-315-01	o	SCREW (M2X5), SMALL, +P, SW
1207	3-559-408-11	s	WASHER, POLYETHYLENE, DIA.1.2
1208	3-679-729-02	s	FLANGE,UPPER
1209	3-679-764-01	o	GEAR,MIDWAY,ST DRIVING
1210	3-691-344-01	o	RAIL,T
1211	3-691-352-02	s	GEAR,ST DRIVING
1212	3-691-563-01	o	PLATE,UNTHREAD GUIDING
1213	3-691-577-01	s	GUIDE,SLANT
1214	3-694-275-01	s	FLANGE,UNDER,T2
1215	3-716-167-01	s	SPRING, COMPRESSION
1216	3-727-809-01	s	BOLT (M1.4X5), HEXAGON SOCKET
1217	3-729-011-01	s	SPRING, COMPRESSION
1218	3-729-013-21	s	SCREW(M1.4X2.5),WASHERHEAD(+P)


SET SCREW,
HEXAGON 2 X 2.5
(FLAT POINT)
P1.4 X 3.5
PRECISION
P1.4 X 1.8
PRECISION
E-1.2

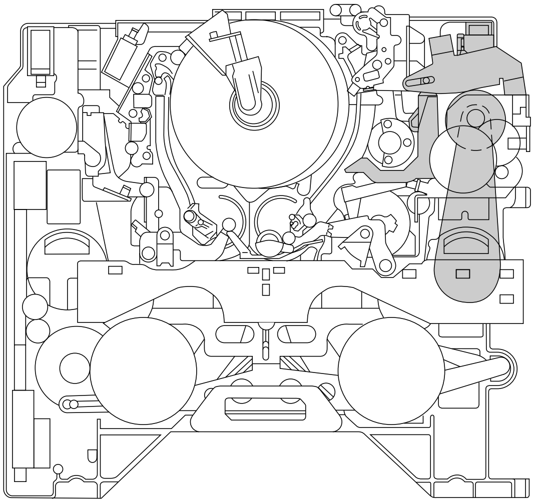
CUE/TC HEAD AND CAPSTAN MOTOR



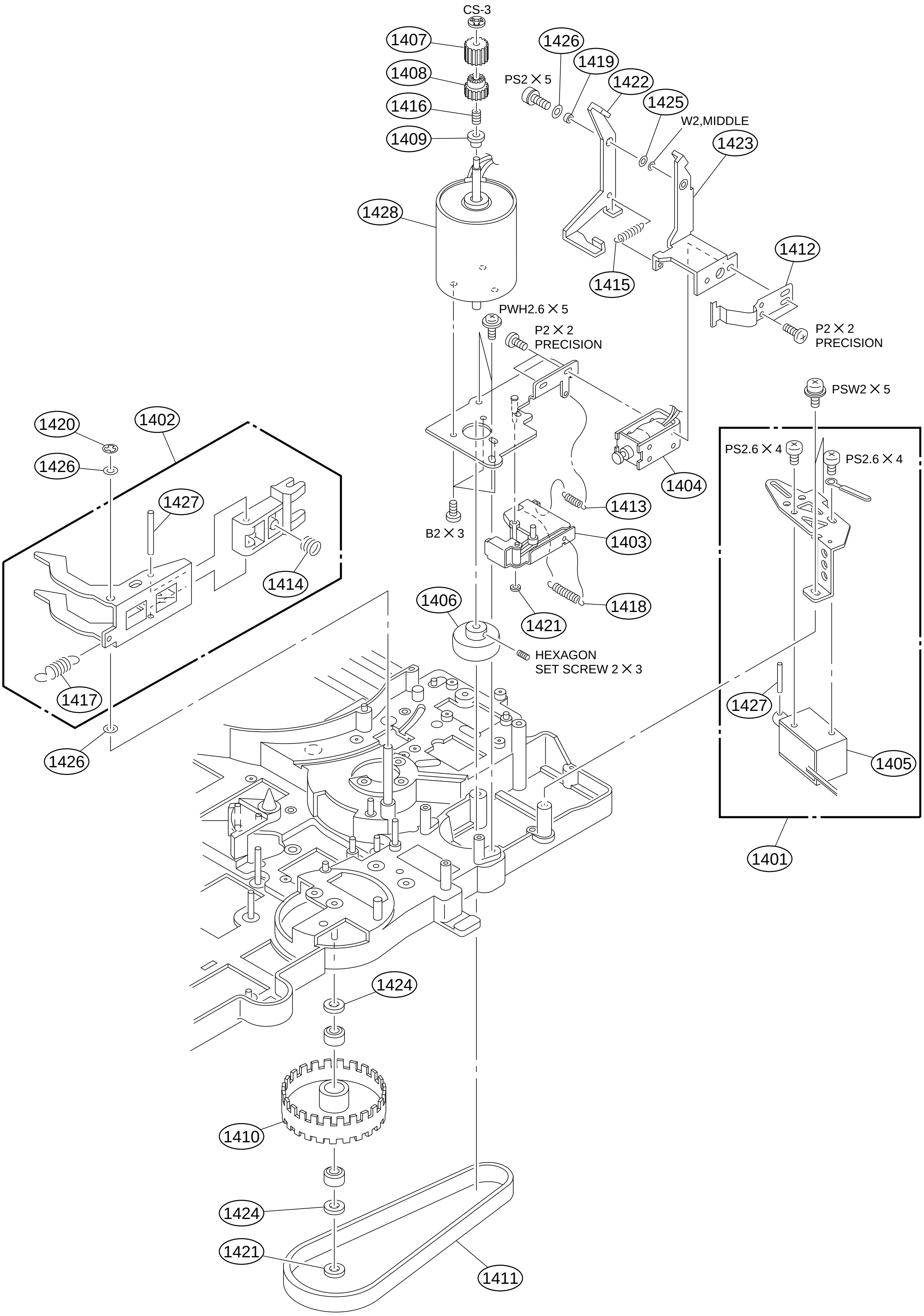
No.	Part No.	SP	Description
1301	A-8269-466-A	o	HEAD ASSY, EXIT
1302	X-3678-095-2	o	PLATE ASSY,BASE CUE/TC
1303	X-3678-112-1	o	PLATE ASSY,CUE/TC ADJUSTMENT
1304	X-3678-378-1	o	PLATE(A),HEAD ASSY
1305	X-3678-434-2	o	ARM ASSY,CLEANER
1306	2-640-315-01	o	SCREW (M2X5), SMALL, +P, SW
1307	3-171-570-01	o	PLATE (R), ADJUSTMENT
1308	3-321-393-01	s	WASHER, STOPPER
1309	3-680-005-01	o	SPRING,CUE/TC
1310	3-680-222-01	s	SPRING,COMPRESSION
1311	3-680-223-01	s	SHAFT
1312	3-680-225-01	o	SLEEVE,SHAFT,MAIN,CUE/TC
1313	3-680-233-01	o	SPRING,RTN
1314	3-680-262-02	o	PLATE,SWING,CUE/TC
1315	3-681-778-02	s	BRUSH,CUE
1316	3-689-893-01	o	CASE,SHIELD
1317	3-689-895-01	o	PLATE(B),HEAD
1318	3-691-881-01	o	HOLDER,HARNESS
1319	3-698-829-01	s	NUT (M2)
1320	3-701-437-11	s	WASHER
1321	3-701-439-11	s	WASHER
1322	3-729-013-21	s	SCREW(M1.4X2.5),WASHERHEAD(+P)
1323	3-729-013-41	s	SCREW(M1.4X3.5),WASHERHEAD(+P)
1324	8-825-920-01	s	HEAD, AUIDO EPS244-2103J
1325	8-835-534-01	s	MOTOR, DC SCV-0702A/J-N


PS2 × 5
W2, MIDDLE
SET SCREW, SLOT
2 × 6 (CONE POINT)
SET SCREW, SLOT
2 × 6 (CONE POINT)
PS2 × 5

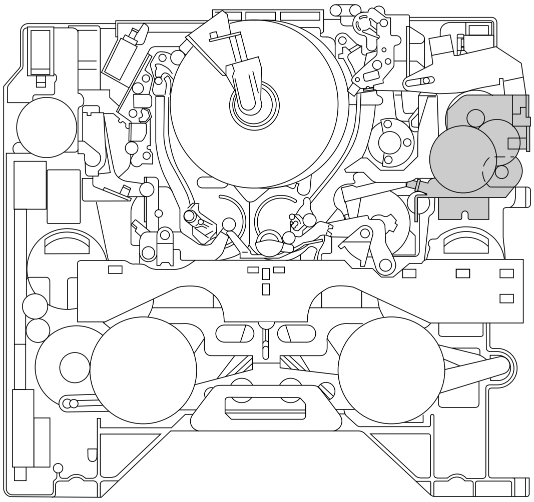
T-SIDE REEL MOTOR AND PINCH PRESS BLOCK



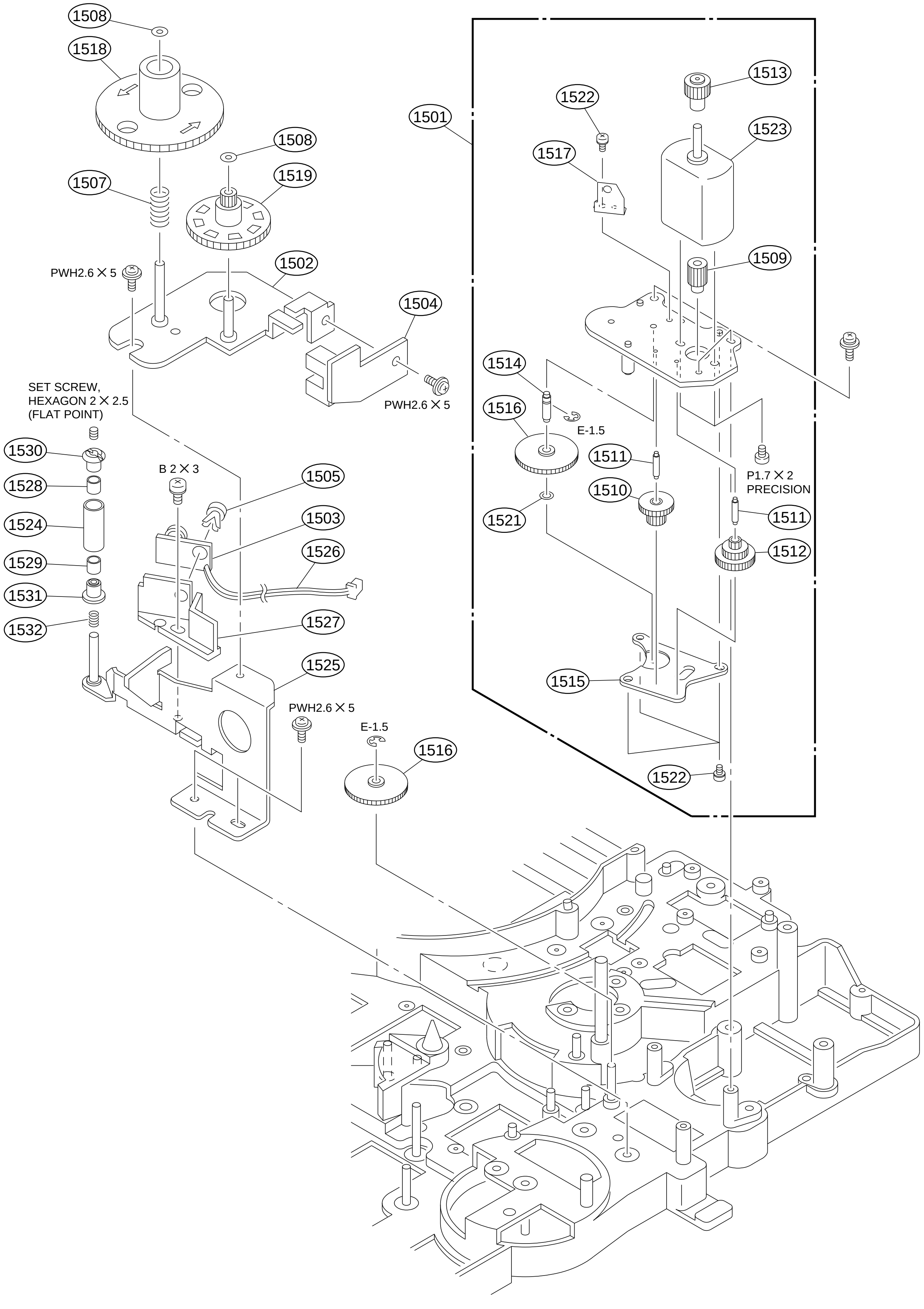
No.	Part No.	SP	Description
1401	A-8278-216-A	o	PLUNGER ASSY,PINCH PRESSING
1402	A-8278-217-B	o	ARM ASSY,PINCH PRESSING
1403	X-3165-731-2	s	ARM ASSY, BRAKE
1404	1-454-334-61	s	SOLENOID, PLUNGER
1405	1-454-383-31	s	SOLENOID, PLUNGER
1406	3-169-370-03	o	PULLEY, MOTOR
1407	3-169-371-02	s	PLATE, CLUTCH
1408	3-169-372-01	s	GEAR, REEL MOTOR DRIVING
1409	3-169-373-01	s	WASHER, SPRING
1410	3-169-503-03	s	PULLEY (B), RELAY
1411	3-172-003-01	s	BELT, DRIVING
1412	3-173-411-01	s	SPRING, BRAKE PLATE
1413	3-307-374-00	s	SPRING, TENSION
1414	3-345-408-01	s	SPRING, COMPRESSION
1415	3-371-875-01	s	SPRING (LOCK PLATE), TENSION
1416	3-637-331-00	s	SPRING, COMPRESSION (L)
1417	3-639-371-00	s	SPRING, TENSION
1418	3-642-482-00	s	SPRING, TENSION
1419	3-657-841-61	o	SPACER (2X1.6)
1420	3-669-596-01	s	WASHER (2.3), STOPPER
1421	3-676-387-00	s	POLY-SLIDER (DIA.1.6)
1422	3-691-564-01	o	LEVER,BRAKE RELEASE
1423	3-691-565-01	o	BASE,BRAKE RELEASE
1424	3-701-437-21	s	WASHER
1425	3-701-439-01	s	WASHER
1426	3-701-439-11	s	WASHER
1427	3-703-358-08	l	PIN, PARALLEL (DIA. 2X20)
1428	8-835-441-01	s	MOTOR R432276751A


CS-3
PS2 × 5
W2,MIDDLE
P2 × 2
PRECISION
PWH2.6 × 5
P2 × 2
PRECISION
PSW2 × 5
B2 × 3
HEXAGON
SET SCREW 2 × 3
PS2.6 × 4
PS2.6 × 4

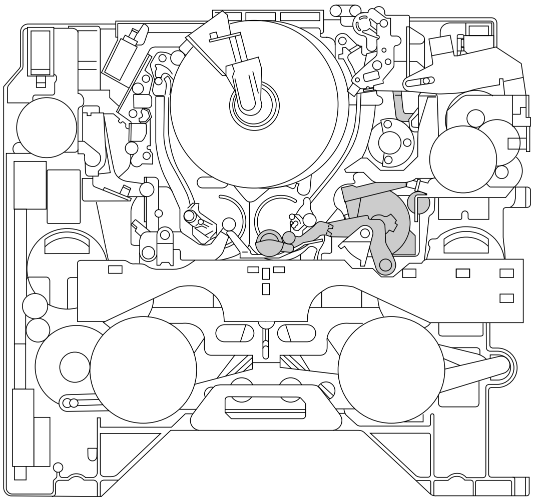
THREADING MOTOR AND GEAR TRAIN



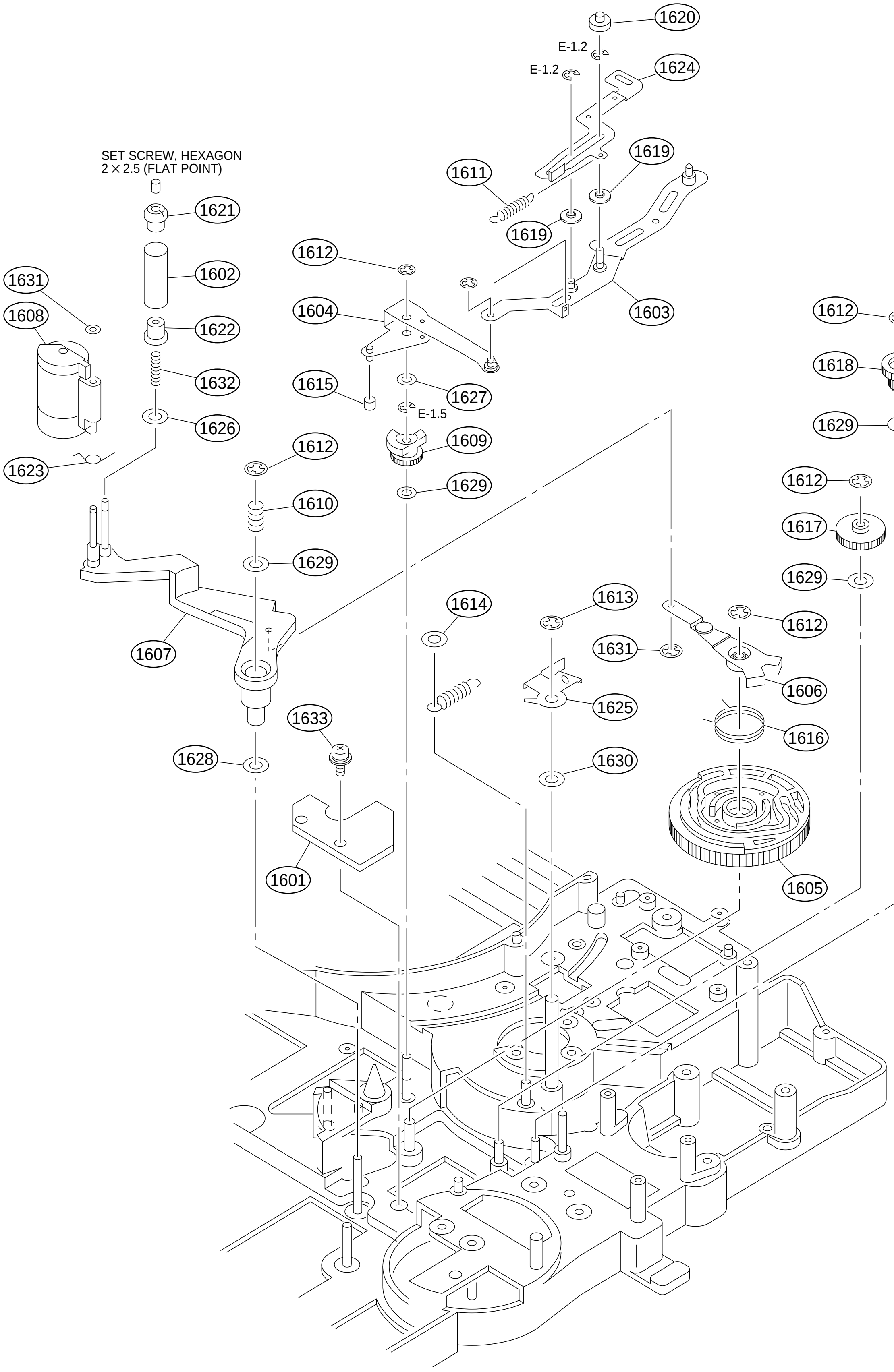
No.	Part No.	SP	Description
1501	A-8269-450-A	o	BLOCK ASSY, GEAR
1502	X-3678-385-1	o	EJECT ASSY,MANUAL
1503	1-543-316-21	s	HEAD, SENSING (SMALL TYPE)
1504	1-638-705-12	o	PRINTED CIRCUIT BOARD, DET-15
1505	2-279-715-01	s	RIVET, NYLON
1507	3-561-540-01	s	SPRING, COMPRESSION
1508	3-669-465-01	s	WASHER (1.5), STOPPER
1509	3-679-748-01	s	PINION
1510	3-679-750-01	o	GEAR(B)
1511	3-679-799-01	o	SHAFT,GEAR
1512	3-680-263-01	o	GEAR(C)
1513	3-680-988-01	s	PINION B
1514	3-691-348-01	o	GEAR SHAFT(A)
1515	3-691-349-01	o	GEAR BLOCK PLATE(B)
1516	3-691-352-02	s	GEAR,ST DRIVING
1517	3-691-353-01	o	LIMITTER PLATE
1518	3-691-371-01	o	GEAR,MIDWAY
1519	3-691-372-01	o	DRIVING GEAR,MANUAL
1521	3-701-437-21	s	WASHER
1522	3-729-013-21	s	SCREW(M1.4X2.5),WASHERHEAD(+P)
1523	8-835-440-01	s	MOTOR DN20-Q7Z1B
1524	X-3678-156-3	S	ROLLER T ASSY
1525	X-3678-547-1	O	BASE ASSY, T4 GUIDE
1526	1-948-409-11	O	HARNESS(MB-44TTOPA)
1527	3-602-508-02	O	HOLDER, TOP SENSOR
1528	3-602-510-01	S	ROLLER T4(A)
1529	3-602-511-01	S	ROLLER T4(B)
1530	3-679-729-02	S	FRANGE, UPPER
1531	3-680-230-01	S	FLANGE, UNDER
1532	3-729-011-01	S	SPRING, COMPRESSION


1508
1518
1501
1522
1513
1523
1517
1508
1519
1507
1509
PWH2.6 × 5
1502
1504
1514
SET SCREW,
HEXAGON 2 × 2.5
(FLAT POINT)
PWH2.6 × 5
1516
E-1.5
1530
1511
B 2 × 3
1505
P1.7 × 2
PRECISION
1528
1510
1503
1521
1511
1524
1526
1512
1529
1531
1527
1532
1525
1515
PWH2.6 × 5
E-1.5
1516
1522

CUE LINK AND PINCH ARM



No.	Part No.	SP	Description
1601	A-8276-926-A	o	MOUNTED CIRCUIT BOARD, DET-26
1602	X-3678-091-2	s	ROLLER ASSY
1603	X-3678-382-1	o	LINK ASSY,CUE DRIVING
1604	X-3678-383-1	o	CUE DRIVING ARM ASSY (A)
1605	X-3678-384-1	o	GEAR ASSY,CAM
1606	X-3678-423-2	o	LINK ASSY,T
1607	X-3678-424-2	o	SUB ASSY,T ARM
1608	X-3678-425-3	s	ARM ASSY,PINCH ROLLER
1609	X-3678-461-1	s	GEAR ASSY,INTERMITTENT
1610	2-618-901-00	s	SPRING
1611	3-535-369-01	s	SPRING, TENSION
1612	3-669-465-01	s	WASHER (1.5), STOPPER
1613	3-669-596-01	s	WASHER (2.3), STOPPER
1614	3-672-250-01	s	RING (M2.6), O
1615	3-683-340-01	o	ROLLER A
1616	3-689-899-02	s	SPRING,TORSION
1617	3-691-351-02	s	GEAR, MIDWAY
1618	3-691-355-02	s	GEAR,JOINT
1619	3-691-356-01	o	C SLEEVE
1620	3-691-357-01	s	C SLEEVE
1621	3-691-382-02	s	FLANGE,UPPER
1622	3-691-383-02	s	FLANGE,UNDER
1623	3-691-550-01	s	SPRING,PINCH RETURN
1624	3-692-093-01	o	LEVER,CUE CLEANER
1625	3-692-097-02	o	LEVER STOPPER
1626	3-701-436-21	s	WASHER, POLYEHTHYLENE
1627	3-701-437-01	s	WASHER
1628	3-701-437-11	s	WASHER
1629	3-701-437-21	s	WASHER
1630	3-701-439-11	s	WASHER
1631	3-726-829-01	l	WASHER, STOPPER
1632	3-729-011-01	s	SPRING, COMPRESSION
1633	3-729-013-21	s	SCREW(M1.4X2.5),WASHERHEAD(+P)


1620
E-1.2
E-1.2
1624
SET SCREW, HEXAGON
2 × 2.5 (FLAT POINT)
1611
1619
1621
1619
1612
1602
1631
1608
1604
1603
1612
1622
1618
1632
1615
1627
E-1.5
1626
1629
1609
1612
1623
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1630
1601
1605

5-3. Electrical Parts List

ADA-44 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8276-930-A	o	MOUNTED CIRCUIT BOARD, ADA-44
C1	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C2	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C3	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C4	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C5	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C6	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C7	1-163-038-00	s	CERAMIC 0.1uF 25V
C8	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C9	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C10	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C11	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C12	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C13	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C14	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C15	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C16	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C17	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C18	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C19	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C20	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C21	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C22	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C23	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C24	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C29	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C30	1-104-553-11	s	FILM, CHIP 0.015uF 5% 16V
C31	1-104-553-11	s	FILM, CHIP 0.015uF 5% 16V
C32	1-104-553-11	s	FILM, CHIP 0.015uF 5% 16V
C33	1-104-553-11	s	FILM, CHIP 0.015uF 5% 16V
C34-41	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C42-49	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C50	1-104-549-11	s	FILM, CHIP 0.0068uF 5% 16V
C51	1-104-549-11	s	FILM, CHIP 0.0068uF 5% 16V
C52	1-104-549-11	s	FILM, CHIP 0.0068uF 5% 16V
C53	1-104-549-11	s	FILM, CHIP 0.0068uF 5% 16V
C54	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C55	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C56	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C57	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C58	1-135-070-00	s	TANTALUM, CHIP 0.1uF 10% 35V
C59	1-135-070-00	s	TANTALUM, CHIP 0.1uF 10% 35V
C60	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C61	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C62	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C63	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C64-69	1-163-038-00	s	CERAMIC 0.1uF 25V
C70	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C71	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C72	1-164-346-11	s	CERAMIC 1uF 16V
C73	1-164-346-11	s	CERAMIC 1uF 16V
C74	1-164-346-11	s	CERAMIC 1uF 16V
C75	1-164-346-11	s	CERAMIC 1uF 16V
C76	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C201	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C202	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C203	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C204	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V

(ADA-44 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C205	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C206	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C207	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C208	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C209	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C210	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C211	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C212	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C213	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C214	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C215	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C216	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C217	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C218	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C219	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C220	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C221	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C222	1-104-543-11	s	FILM, CHIP 0.0022uF 5% 50V
C223	1-104-543-11	s	FILM, CHIP 0.0022uF 5% 50V
C224	1-104-543-11	s	FILM, CHIP 0.0022uF 5% 50V
C225	1-104-543-11	s	FILM, CHIP 0.0022uF 5% 50V
C226	1-104-539-11	s	FILM, CHIP 0.001uF 5% 50V
C227	1-104-539-11	s	FILM, CHIP 0.001uF 5% 50V
C228	1-104-539-11	s	FILM, CHIP 0.001uF 5% 50V
C229	1-104-539-11	s	FILM, CHIP 0.001uF 5% 50V
C230-241	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C242	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C243	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C244	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C245	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C246	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C247	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C248	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C249	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C250	1-104-551-11	s	FILM, CHIP 0.01uF 5% 16V
C251	1-104-551-11	s	FILM, CHIP 0.01uF 5% 16V
C252	1-104-551-11	s	FILM, CHIP 0.01uF 5% 16V
C253	1-104-551-11	s	FILM, CHIP 0.01uF 5% 16V
C254	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C255	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C260	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C261	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C262	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C263	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C264	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C265	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C351	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C352	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C353	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C354-364	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C365	1-164-346-11	s	CERAMIC 1uF 16V
C366	1-164-346-11	s	CERAMIC 1uF 16V
C367	1-164-346-11	s	CERAMIC 1uF 16V
C368	1-164-346-11	s	CERAMIC 1uF 16V
C369-373	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C374	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C375	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C376	1-104-608-11	s	ELECT, CHIP 33uF 20% 6.3V
C377	1-128-394-11	s	ELECT 220uF 20% 10V

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Ref. No. or Q'ty	Part No.	SP	Description
C378	1-128-394-11	s	ELECT 220uF 20% 10V
C379	1-126-393-11	s	ELECT, CHIP 33uF 20% 10V
C380	1-126-393-11	s	ELECT, CHIP 33uF 20% 10V
C381	1-126-393-11	s	ELECT, CHIP 33uF 20% 10V
C382	1-126-393-11	s	ELECT, CHIP 33uF 20% 10V
C383	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C384	1-104-608-11	s	ELECT, CHIP 33uF 20% 6.3V
C385-390	1-126-393-11	s	ELECT, CHIP 33uF 20% 10V
CN551	1-565-884-11	o	CONNECTOR 12P, MALE
CN552	1-568-521-11	o	CONNECTOR 13P, MALE
CN553	1-565-882-11	o	CONNECTOR, 10P, MALE
CN554	1-565-877-11	s	CONNECTOR, PC BOARD 5P, MALE
CN555	1-565-882-11	o	CONNECTOR, 10P, MALE
CN556	1-565-884-11	o	CONNECTOR 12P, MALE
CN557	1-566-758-11	o	CONNECTOR 3P, MALE
CN558	1-569-761-11	s	CONNECTOR, BOARD TO BOATD 20P
CN559	1-565-878-11	s	CONNECTOR 6P, MALE
D1	8-719-989-08	s	DIODE RB717F
D2	8-719-989-08	s	DIODE RB717F
D3	8-719-989-08	s	DIODE RB717F
D4	8-719-989-08	s	DIODE RB717F
D5	8-719-988-82	s	DIODE RB715F
D6	8-719-988-82	s	DIODE RB715F
D7	8-719-988-82	s	DIODE RB715F
D8	8-719-988-82	s	DIODE RB715F
D9	8-719-941-86	s	DIODE DAN202U
D201	8-719-941-86	s	DIODE DAN202U
D202	8-719-941-86	s	DIODE DAN202U
D351	8-759-710-88	s	IC NJM431U
D354	8-719-157-23	s	DIODE RD4.7M-B
D355	8-719-157-23	s	DIODE RD4.7M-B
D356	8-719-157-23	s	DIODE RD4.7M-B
D357	8-719-157-36	s	DIODE RD6.8M-B
D358	8-719-157-23	s	DIODE RD4.7M-B
D359	8-719-157-36	s	DIODE RD6.8M-B
D360	8-719-157-23	s	DIODE RD4.7M-B
D361	8-719-157-36	s	DIODE RD6.8M-B
D362	8-719-157-23	s	DIODE RD4.7M-B
IC1-8	8-759-711-85	s	IC NJM4580E-D(T2)
IC9	8-759-336-17	s	IC AK5390-VS
IC10	8-759-336-17	s	IC AK5390-VS
IC11	8-759-079-60	s	IC TC74VHC32FS(EL)
IC12	8-759-079-66	s	IC TC74VHC123AFS(EL)
IC201	8-759-079-61	s	IC TC74VHC74FS(EL)
IC202	8-759-079-80	s	IC TC74VHC175FS(EL)
IC203	8-759-170-85	s	IC PCM69U-J-T1
IC204	8-759-170-85	s	IC PCM69U-J-T1
IC205-210	8-759-711-85	s	IC NJM4580E-D(T2)
IC310	8-759-711-58	s	IC NJM78L05UA
IC351	8-759-701-01	s	IC NJM2904M
IC352	8-759-702-02	s	IC NJM062M
IC353	8-759-702-02	s	IC NJM062M
IC354	8-759-079-60	s	IC TC74VHC32FS(EL)
IC355	8-759-186-84	s	IC TC74VHC86F
IC356	8-759-300-71	s	IC HD14053BFP
IC357	8-759-009-06	s	IC MC14052BF
IC358	8-759-009-06	s	IC MC14052BF

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Ref. No. or Q'ty	Part No.	SP	Description
IC359	8-759-702-02	s	IC NJM062M
IC360	8-759-702-02	s	IC NJM062M
IC361	8-759-702-02	s	IC NJM062M
Q1	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q2	8-729-012-35	s	TRANSISTOR 2SK711-BL
Q3	8-729-012-35	s	TRANSISTOR 2SK711-BL
Q4	8-729-012-35	s	TRANSISTOR 2SK711-BL
Q5	8-729-012-35	s	TRANSISTOR 2SK711-BL
Q201	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q202	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q203	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q204	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q205	8-729-012-35	s	TRANSISTOR 2SK711-BL
Q206	8-729-012-35	s	TRANSISTOR 2SK711-BL
Q207	8-729-012-35	s	TRANSISTOR 2SK711-BL
Q208	8-729-012-35	s	TRANSISTOR 2SK711-BL
Q351	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
Q352	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
Q353	8-729-028-83	s	TRANSISTOR DTA124EUA-T106
Q354	8-729-028-83	s	TRANSISTOR DTA124EUA-T106
Q355	8-729-028-83	s	TRANSISTOR DTA124EUA-T106
Q356	8-729-028-83	s	TRANSISTOR DTA124EUA-T106
Q357	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q358	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q359	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q360	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q361	8-729-807-51	s	TRANSISTOR 2SD1623-S
Q362	8-729-101-07	s	TRANSISTOR 2SB798
Q364	8-729-807-87	s	TRANSISTOR 2SB1295-UL6
Q365	8-729-809-47	s	TRANSISTOR 2SD1935-CT7
Q366	8-729-807-87	s	TRANSISTOR 2SB1295-UL6
Q367	8-729-809-47	s	TRANSISTOR 2SD1935-CT7
Q368	8-729-101-07	s	TRANSISTOR 2SB798
Q369	8-729-809-47	s	TRANSISTOR 2SD1935-CT7
R5	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R6-13	1-208-801-11	s	METAL, CHIP 6.2K 0.5% 1/10W
R14	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R15	1-218-729-11	s	METAL, CHIP 36K 0.5% 1/16W
R16	1-218-867-11	s	METAL, CHIP 6.8K 0.5% 1/16W
R17	1-218-867-11	s	METAL, CHIP 6.8K 0.5% 1/16W
R18	1-218-867-11	s	METAL, CHIP 6.8K 0.5% 1/16W
R19	1-218-867-11	s	METAL, CHIP 6.8K 0.5% 1/16W
R20	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R21	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R22	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R23	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R24	1-218-867-11	s	METAL, CHIP 6.8K 0.5% 1/16W
R25	1-218-867-11	s	METAL, CHIP 6.8K 0.5% 1/16W
R26	1-218-867-11	s	METAL, CHIP 6.8K 0.5% 1/16W
R27	1-218-867-11	s	METAL, CHIP 6.8K 0.5% 1/16W
R28	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R32-36	1-216-864-11	s	METAL, CHIP 0
R37	1-216-295-00	s	RES, CHIP 0
R38	1-216-295-00	s	RES, CHIP 0
R39	1-216-295-00	s	RES, CHIP 0
R44	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R45	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R46	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SP	Description
R47	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R48	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R49	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R50	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R51	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R56	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R57	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R58	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R59	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R64	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R65	1-218-901-11	s	METAL, CHIP 180K 0.5% 1/16W
R66	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R67	1-218-901-11	s	METAL, CHIP 180K 0.5% 1/16W
R68	1-218-707-11	s	METAL, CHIP 4.3K 0.5% 1/16W
R69	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R70	1-218-901-11	s	METAL, CHIP 180K 0.5% 1/16W
R71	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R72	1-218-901-11	s	METAL, CHIP 180K 0.5% 1/16W
R73	1-218-707-11	s	METAL, CHIP 4.3K 0.5% 1/16W
R74	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R75	1-218-901-11	s	METAL, CHIP 180K 0.5% 1/16W
R76	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R77	1-218-901-11	s	METAL, CHIP 180K 0.5% 1/16W
R78	1-218-707-11	s	METAL, CHIP 4.3K 0.5% 1/16W
R79	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R80	1-218-901-11	s	METAL, CHIP 180K 0.5% 1/16W
R81	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R82	1-218-901-11	s	METAL, CHIP 180K 0.5% 1/16W
R83	1-218-707-11	s	METAL, CHIP 4.3K 0.5% 1/16W
R88	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R89	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R90	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R91	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R92	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R93	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R94	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R95	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R96	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R97	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R98	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R99	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R100	1-216-851-11	s	METAL, CHIP 330K 5% 1/16W
R101	1-216-851-11	s	METAL, CHIP 330K 5% 1/16W
R102	1-216-851-11	s	METAL, CHIP 330K 5% 1/16W
R103	1-216-851-11	s	METAL, CHIP 330K 5% 1/16W
R104	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R105	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R106	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R107	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R108	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R109	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R110	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R111	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R112	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R113	1-216-813-11	s	METAL, CHIP 220 5% 1/16W
R114	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R115	1-216-813-11	s	METAL, CHIP 220 5% 1/16W
R116	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R117	1-216-813-11	s	METAL, CHIP 220 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R118	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R119	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R120-124	1-218-889-11	s	METAL, CHIP 56K 0.5% 1/16W
R125	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R126	1-218-889-11	s	METAL, CHIP 56K 0.5% 1/16W
R127	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R128	1-218-889-11	s	METAL, CHIP 56K 0.5% 1/16W
R129	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R130	1-218-889-11	s	METAL, CHIP 56K 0.5% 1/16W
R131	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R132	1-218-866-11	s	METAL, CHIP 6.2K 0.5% 1/16W
R134	1-218-866-11	s	METAL, CHIP 6.2K 0.5% 1/16W
R136	1-218-866-11	s	METAL, CHIP 6.2K 0.5% 1/16W
R138	1-218-866-11	s	METAL, CHIP 6.2K 0.5% 1/16W
R140-147	1-211-991-11	s	METAL, CHIP 82 0.5% 1/16W
R148	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R149	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R150	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R151	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R153	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R155	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R157	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R158	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R159	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R201-205	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R206	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R207	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R208-222	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R223	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R224	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R225	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R226	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R227	1-216-830-11	s	METAL, CHIP 5.6K 5% 1/16W
R228	1-216-830-11	s	METAL, CHIP 5.6K 5% 1/16W
R229	1-216-830-11	s	METAL, CHIP 5.6K 5% 1/16W
R230	1-216-830-11	s	METAL, CHIP 5.6K 5% 1/16W
R231	1-216-851-11	s	METAL, CHIP 330K 5% 1/16W
R232	1-216-851-11	s	METAL, CHIP 330K 5% 1/16W
R233	1-216-851-11	s	METAL, CHIP 330K 5% 1/16W
R234	1-216-851-11	s	METAL, CHIP 330K 5% 1/16W
R235	1-218-699-11	s	METAL, CHIP 2K 0.5% 1/16W
R236	1-218-699-11	s	METAL, CHIP 2K 0.5% 1/16W
R237	1-218-699-11	s	METAL, CHIP 2K 0.5% 1/16W
R238	1-218-699-11	s	METAL, CHIP 2K 0.5% 1/16W
R239	1-216-067-00	s	METAL, CHIP 5.6K 5% 1/10W
R240	1-216-067-00	s	METAL, CHIP 5.6K 5% 1/10W
R241	1-216-830-11	s	METAL, CHIP 5.6K 5% 1/16W
R242	1-216-830-11	s	METAL, CHIP 5.6K 5% 1/16W
R243	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R244	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R245	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R246	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R247-254	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R255	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R256	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R257	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R258	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R259	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R260	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W

Ref. No. or Q'ty	Part No.	SP	Description
R261	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R262	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R263	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R264	1-218-729-11	s	METAL, CHIP 36K 0.5% 1/16W
R265	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R266	1-218-729-11	s	METAL, CHIP 36K 0.5% 1/16W
R267	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R268	1-218-729-11	s	METAL, CHIP 36K 0.5% 1/16W
R269	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R270	1-218-729-11	s	METAL, CHIP 36K 0.5% 1/16W
R271	1-216-830-11	s	METAL, CHIP 5.6K 5% 1/16W
R272	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R273	1-216-830-11	s	METAL, CHIP 5.6K 5% 1/16W
R274	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R275	1-216-830-11	s	METAL, CHIP 5.6K 5% 1/16W
R276	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R277	1-216-830-11	s	METAL, CHIP 5.6K 5% 1/16W
R278	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R279	1-216-844-11	s	METAL, CHIP 82K 5% 1/16W
R280	1-216-844-11	s	METAL, CHIP 82K 5% 1/16W
R281	1-216-844-11	s	METAL, CHIP 82K 5% 1/16W
R282	1-216-844-11	s	METAL, CHIP 82K 5% 1/16W
R283	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W
R284	1-218-845-11	s	METAL, CHIP 820 0.5% 1/16W
R285	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W
R286	1-218-845-11	s	METAL, CHIP 820 0.5% 1/16W
R287	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W
R288	1-218-845-11	s	METAL, CHIP 820 0.5% 1/16W
R289	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W
R290	1-218-845-11	s	METAL, CHIP 820 0.5% 1/16W
R291	1-216-655-11	s	METAL, CHIP 1.5K 0.5% 1/10W
R292	1-216-655-11	s	METAL, CHIP 1.5K 0.5% 1/10W
R293	1-216-655-11	s	METAL, CHIP 1.5K 0.5% 1/10W
R294	1-216-655-11	s	METAL, CHIP 1.5K 0.5% 1/10W
R295	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R296	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R297	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R298	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R299	1-218-707-11	s	METAL, CHIP 4.3K 0.5% 1/16W
R300	1-218-707-11	s	METAL, CHIP 4.3K 0.5% 1/16W
R301	1-218-707-11	s	METAL, CHIP 4.3K 0.5% 1/16W
R302	1-218-707-11	s	METAL, CHIP 4.3K 0.5% 1/16W
R303	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R304	1-218-738-11	s	METAL, CHIP 82K 0.5% 1/16W
R305	1-218-738-11	s	METAL, CHIP 82K 0.5% 1/16W
R306	1-218-727-11	s	METAL, CHIP 30K 0.5% 1/16W
R307	1-218-729-11	s	METAL, CHIP 36K 0.5% 1/16W
R308	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R309	1-218-738-11	s	METAL, CHIP 82K 0.5% 1/16W
R310	1-218-738-11	s	METAL, CHIP 82K 0.5% 1/16W
R311	1-218-727-11	s	METAL, CHIP 30K 0.5% 1/16W
R312	1-218-729-11	s	METAL, CHIP 36K 0.5% 1/16W
R313	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R314	1-218-738-11	s	METAL, CHIP 82K 0.5% 1/16W
R315	1-218-738-11	s	METAL, CHIP 82K 0.5% 1/16W
R316	1-218-727-11	s	METAL, CHIP 30K 0.5% 1/16W
R317	1-218-729-11	s	METAL, CHIP 36K 0.5% 1/16W
R318	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R319	1-218-738-11	s	METAL, CHIP 82K 0.5% 1/16W

Ref. No. or Q'ty	Part No.	SP	Description
R320	1-218-738-11	s	METAL, CHIP 82K 0.5% 1/16W
R321	1-218-727-11	s	METAL, CHIP 30K 0.5% 1/16W
R322	1-218-729-11	s	METAL, CHIP 36K 0.5% 1/16W
R323-330	1-216-864-11	s	METAL, CHIP 0
R331	1-216-001-00	s	METAL, CHIP 10 5% 1/10W
R332-337	1-216-313-00	s	METAL, CHIP 8.2 5% 1/10W
R351	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R352	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R353	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R354	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R355	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R356	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R357	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R358	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R359	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R360	1-218-706-11	s	METAL, CHIP 3.9K 0.5% 1/16W
R361	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R362	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R363	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R364	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W [for UC:S/N 10001 through 10078] [for J :S/N 10001 through 10060] [for SY:S/N 10001 through 10110]
R365	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R366	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R367	1-218-881-11	s	METAL, CHIP 27K 0.5% 1/16W
R368	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R369	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R370-377	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R378	1-216-295-00	s	RES, CHIP 0 [for UC:S/N 10079 and higher] [for J :S/N 10061 and higher] [for SY:S/N 10111 and higher]
	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W [for UC:S/N 10001 through 10078] [for J :S/N 10001 through 10060] [for SY:S/N 10001 through 10110]
R379	1-216-295-00	s	RES, CHIP 0 [for UC:S/N 10079 and higher] [for J :S/N 10061 and higher] [for SY:S/N 10111 and higher]
	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W [for UC:S/N 10001 through 10078] [for J :S/N 10001 through 10060] [for SY:S/N 10001 through 10110]
R380	1-216-295-00	s	RES, CHIP 0 [for UC:S/N 10079 and higher] [for J :S/N 10061 and higher] [for SY:S/N 10111 and higher]
	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W [for UC:S/N 10001 through 10078] [for J :S/N 10001 through 10060] [for SY:S/N 10001 through 10110]
R381	1-216-295-00	s	RES, CHIP 0 [for UC:S/N 10079 and higher] [for J :S/N 10061 and higher] [for SY:S/N 10111 and higher]
	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W [for UC:S/N 10001 through 10078] [for J :S/N 10001 through 10060] [for SY:S/N 10001 through 10110]

(ADA-44 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R382	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R383	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R384	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R385	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R386-397	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R398	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R399	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R400	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R401	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R402	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R403	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R404	1-216-864-11	s	METAL, CHIP 0
R405	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R406	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R407	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R408	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R409	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R410	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R411	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R412	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R413	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R414	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R415	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R416	1-216-851-11	s	METAL, CHIP 330K 5% 1/16W
R417	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R418	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R419	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R420	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R421	1-218-707-11	s	METAL, CHIP 4.3K 0.5% 1/16W
R422	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R423	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R424	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R425	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R426	1-218-725-11	s	METAL, CHIP 24K 0.5% 1/16W
R427	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R428-433	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R434	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R435	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R436	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R437	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R438	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R440-445	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R447-452	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R453	1-215-469-00	s	METAL 100K 1% 1/6W
RV1	1-237-034-11	s	RES, ADJ METAL 2K
RV2	1-237-034-11	s	RES, ADJ METAL 2K
RV3	1-237-034-11	s	RES, ADJ METAL 2K
RV4	1-237-034-11	s	RES, ADJ METAL 2K
RV5	1-237-039-11	s	RES, ADJ METAL 100K
RV6	1-237-039-11	s	RES, ADJ METAL 100K
RV7	1-237-039-11	s	RES, ADJ METAL 100K
RV8	1-237-039-11	s	RES, ADJ METAL 100K
RV40	1-241-522-11	s	RES, VAR CARBON 10K
RV50	1-241-522-11	s	RES, VAR CARBON 10K
RV60	1-241-522-11	s	RES, VAR CARBON 10K
RV70	1-241-522-11	s	RES, VAR CARBON 10K
RV201	1-237-038-11	s	RES, ADJ METAL 50K
RV202	1-237-038-11	s	RES, ADJ METAL 50K
RV203	1-237-038-11	s	RES, ADJ METAL 50K

(ADA-44 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RV204	1-237-038-11	s	RES, ADJ METAL 50K
RV205	1-237-034-11	s	RES, ADJ METAL 2K
RV206	1-237-034-11	s	RES, ADJ METAL 2K
RV207	1-237-034-11	s	RES, ADJ METAL 2K
RV208	1-237-034-11	s	RES, ADJ METAL 2K
S1	1-554-355-00	s	SWITCH, TOGGLE

APR-20 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-658-297-11	o	PRINTED CIRCUIT BOARD, APR-20

This board is included in DPR-62 board.

Ref. No. or Q'ty	Part No.	SP	Description
C1-14	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
IC1	8-759-079-49	s	IC TC74VHC04FS(EL)
IC2	8-759-079-61	s	IC TC74VHC74FS(EL)
IC3	8-759-079-80	s	IC TC74VHC175FS(EL)
IC4	8-759-079-80	s	IC TC74VHC175FS(EL)
IC5	8-759-186-54	s	IC TC74VHC164F
IC6	8-759-079-52	s	IC TC74VHC08FS(EL)
IC7	8-759-079-52	s	IC TC74VHC08FS(EL)
IC8	8-759-079-97	s	IC TC74VHC374FS(EL)
IC9	8-759-079-46	s	IC TC74VHC00FS(EL)
IC10	8-759-079-59	s	IC TC74VHC27FS(EL)
IC11	8-759-079-74	s	IC TC74VHC157FS(EL)
IC12	8-759-079-59	s	IC TC74VHC27FS(EL)
IC13	8-759-079-60	s	IC TC74VHC32FS(EL)
IC14	8-759-079-97	s	IC TC74VHC374FS(EL)
R1-7	1-216-805-11	s	METAL, CHIP 47 5% 1/16W

CC-66 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8276-932-A	o	MOUNTED CIRCUIT BOARD, CC-66
C4	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C5	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C6	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C7	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C8	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C9	1-135-212-21	s	TANTALUM 2.2uF 10% 35V
C10	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C11	1-135-212-21	s	TANTALUM 2.2uF 10% 35V
C12	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C13	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C14	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C15	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C16	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C17	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C18	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C19	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C20	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
CN451	1-566-759-11	o	CONNECTOR 4P, MALE
CN452	1-566-765-11	o	CONNECTOR 10P, MALE
CN453	1-566-766-11	o	CONNECTOR 11P, MALE
CN454	1-566-758-11	o	CONNECTOR 3P, MALE
CN455	1-566-760-11	s	CONNECTOR, ZR 5P, MALE
CN456	1-565-880-11	s	CONNECTOR 8P, MALE
CN457	1-565-884-11	o	CONNECTOR 12P, MALE
CN458	1-750-880-11	s	CONNECTOR, COAXIAL, FEMALE
D4	8-719-037-95	s	DIODE DA227TL
D5	8-719-037-95	s	DIODE DA227TL
D6	8-719-941-09	s	DIODE DAP202U
D7	8-719-941-04	s	DIODE SB007-03CP
D8	8-719-941-04	s	DIODE SB007-03CP
D9	8-719-941-09	s	DIODE DAP202U
FB2	1-543-309-21	s	BEAD, FERRITE
IC2	8-759-710-82	s	IC NJM2406F
IC3	8-759-082-61	s	IC TC4W53FU
IC4	8-759-710-82	s	IC NJM2406F
IC5	8-759-234-77	s	IC TC4S66F
IC6	8-759-030-16	s	IC MC34182M
IC10	8-759-082-61	s	IC TC4W53FU
Q1	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q3	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q4	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q6	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q7	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q8	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q9	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q10	8-729-117-31	s	TRANSISTOR 2SC4177-L5
R1	1-216-625-11	s	METAL, CHIP 82 0.5% 1/10W
R2	1-216-801-11	s	METAL, CHIP 22 5% 1/16W
R3	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R4	1-216-801-11	s	METAL, CHIP 22 5% 1/16W
R5	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R7	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R8	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R9	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R10	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R11	1-216-295-00	s	RES, CHIP 0
R14	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R15	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R17	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R18	1-218-841-11	s	METAL, CHIP 560 0.5% 1/16W
R19	1-218-837-11	s	METAL, CHIP 390 0.5% 1/16W
R20	1-218-864-11	s	METAL, CHIP 5.1K 0.5% 1/16W
R21	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R22	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W
R23	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R24	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R25	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R26	1-216-295-00	s	RES, CHIP 0
R27	1-216-295-00	s	RES, CHIP 0
R28	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R29	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R30	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R31	1-211-991-11	s	METAL, CHIP 82 0.5% 1/16W
R32	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W
R33	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R34	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R35	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R36	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R37	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R38	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R39	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R40	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R41	1-218-868-11	s	METAL, CHIP 7.5K 0.5% 1/16W
R42	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R43	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R44	1-218-868-11	s	METAL, CHIP 7.5K 0.5% 1/16W
R46	1-216-295-00	s	RES, CHIP 0
RV1	1-241-521-11	s	RES, VAR CARBON 5K
S1	1-570-835-11	s	SWITCH, SLIDE
S2	1-570-863-11	s	SWITCH, SLIDE

CON-18 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8272-756-A	o	MOUNTED CIRCUIT BOARD, CON-18
CN431	1-566-760-11	s	CONNECTOR, ZR 5P, MALE

CP-260/260J BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8276-934-A	o	MOUNTED CIRCUIT BOARD, CP-260 [for UC,SY]
	A-8276-936-A	o	MOUNTED CIRCUIT BOARD, CP-260J [for J]
C102	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C103	1-126-403-11	s	ELECT, CHIP 3.3uF 20% 50V
C104	1-126-403-11	s	ELECT, CHIP 3.3uF 20% 50V
C105	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C106	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C112	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C202	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C203	1-126-403-11	s	ELECT, CHIP 3.3uF 20% 50V
C204	1-126-403-11	s	ELECT, CHIP 3.3uF 20% 50V
C205	1-135-213-21	s	TANTALUM 3.3uF 20% 25V
C206	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C207	1-135-213-21	s	TANTALUM 3.3uF 20% 25V
C208	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C209	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C210	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C211	1-163-038-00	s	CERAMIC 0.1uF 25V
C212	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C301	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C302	1-126-403-11	s	ELECT, CHIP 3.3uF 20% 50V
C303	1-126-403-11	s	ELECT, CHIP 3.3uF 20% 50V
C304	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C305	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C312	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C321	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C322	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C401	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C402	1-126-403-11	s	ELECT, CHIP 3.3uF 20% 50V
C403	1-126-403-11	s	ELECT, CHIP 3.3uF 20% 50V
C404	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C405	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C412	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C421	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C422	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C530	1-135-211-11	s	TANTALUM, CHIP 6.8uF 20% 6.3V
C531	1-135-211-11	s	TANTALUM, CHIP 6.8uF 20% 6.3V
C532	1-135-211-11	s	TANTALUM, CHIP 6.8uF 20% 6.3V
C533	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C541	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C542	1-163-989-11	s	CERAMIC, CHIP 0.033uF 10% 25V
C551	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C552	1-135-211-11	s	TANTALUM, CHIP 6.8uF 20% 6.3V
C553	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C554	1-135-211-11	s	TANTALUM, CHIP 6.8uF 20% 6.3V
C555	1-135-211-11	s	TANTALUM, CHIP 6.8uF 20% 6.3V
C556	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C557	1-135-211-11	s	TANTALUM, CHIP 6.8uF 20% 6.3V
C558	1-135-211-11	s	TANTALUM, CHIP 6.8uF 20% 6.3V
C559	1-165-176-11	s	CERAMIC 0.047uF 10% 16V
C560	1-128-397-21	s	ELECT 100uF 20% 16V
C561	1-126-398-11	s	ELECT, CHIP 4.7uF 20% 35V
C562	1-135-211-11	s	TANTALUM, CHIP 6.8uF 20% 6.3V
C563	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C564	1-128-397-21	s	ELECT 100uF 20% 16V
C565	1-135-211-11	s	TANTALUM, CHIP 6.8uF 20% 6.3V
C566	1-135-211-11	s	TANTALUM, CHIP 6.8uF 20% 6.3V

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Ref. No. or Q'ty	Part No.	SP	Description
C567	1-135-211-11	s	TANTALUM, CHIP 6.8uF 20% 6.3V
C568	1-163-038-00	s	CERAMIC 0.1uF 25V
C569	1-126-402-11	s	ELECT, CHIP 2.2uF 20% 50V
C570	1-126-402-11	s	ELECT, CHIP 2.2uF 20% 50V
C571	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C602	1-128-393-11	s	ELECT 100uF 20% 10V
C603	1-128-393-11	s	ELECT 100uF 20% 10V
C604	1-128-394-11	s	ELECT 220uF 20% 10V
C605	1-128-394-11	s	ELECT 220uF 20% 10V
C606	1-162-974-11	s	CERAMIC, CHIP 0.01uF 50V
C607	1-162-974-11	s	CERAMIC, CHIP 0.01uF 50V
C611	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C612	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C613	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C614	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C615	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C616	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C704	1-128-394-11	s	ELECT 220uF 20% 10V
C705	1-128-394-11	s	ELECT 220uF 20% 10V
C706	1-162-974-11	s	CERAMIC, CHIP 0.01uF 50V
C707	1-162-974-11	s	CERAMIC, CHIP 0.01uF 50V
C711	1-163-227-11	s	CERAMIC, CHIP 10PF 5% 50V
C712	1-163-227-11	s	CERAMIC, CHIP 10PF 5% 50V
C715	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C716	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C802	1-128-393-11	s	ELECT 100uF 20% 10V
C803	1-128-393-11	s	ELECT 100uF 20% 10V
C804	1-128-394-11	s	ELECT 220uF 20% 10V
C805	1-128-394-11	s	ELECT 220uF 20% 10V
C806	1-162-974-11	s	CERAMIC, CHIP 0.01uF 50V
C807	1-162-974-11	s	CERAMIC, CHIP 0.01uF 50V
C811	1-163-227-11	s	CERAMIC, CHIP 10PF 5% 50V
C812	1-163-227-11	s	CERAMIC, CHIP 10PF 5% 50V
C813	1-163-038-00	s	CERAMIC 0.1uF 25V
C814	1-163-038-00	s	CERAMIC 0.1uF 25V
C816	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C817	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C904	1-128-394-11	s	ELECT 220uF 20% 10V
C905	1-128-394-11	s	ELECT 220uF 20% 10V
C906	1-162-974-11	s	CERAMIC, CHIP 0.01uF 50V
C907	1-162-974-11	s	CERAMIC, CHIP 0.01uF 50V
C911	1-163-227-11	s	CERAMIC, CHIP 10PF 5% 50V
C912	1-163-227-11	s	CERAMIC, CHIP 10PF 5% 50V
C916	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C917	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C1001	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C1002	1-163-038-00	s	CERAMIC 0.1uF 25V
C1003	1-163-137-00	s	CERAMIC, CHIP 680PF 5% 50V
C1004	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C1005	1-163-038-00	s	CERAMIC 0.1uF 25V
C1024	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC,SY]
C1025	1-126-391-11	s	ELECT, CHIP 47uF 20% 6.3V
C1027	1-126-391-11	s	ELECT, CHIP 47uF 20% 6.3V
C1029	1-126-393-11	s	ELECT, CHIP 33uF 20% 10V
C1031	1-126-393-11	s	ELECT, CHIP 33uF 20% 10V
C1033	1-126-393-11	s	ELECT, CHIP 33uF 20% 10V
C1035	1-126-393-11	s	ELECT, CHIP 33uF 20% 10V
C1038	1-163-038-00	s	CERAMIC 0.1uF 25V
C1040	1-163-038-00	s	CERAMIC 0.1uF 25V

Ref. No. or Q'ty	Part No.	SP	Description
C1042	1-163-038-00	s	CERAMIC 0.1uF 25V
C1044	1-163-038-00	s	CERAMIC 0.1uF 25V
C1045	1-126-403-11	s	ELECT, CHIP 3.3uF 20% 50V [for UC,SY]
C1046	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C1047	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C1048	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C1049	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C2001	1-126-398-11	s	ELECT, CHIP 4.7uF 20% 35V
C2002	1-163-038-00	s	CERAMIC 0.1uF 25V
C2003	1-126-398-11	s	ELECT, CHIP 4.7uF 20% 35V
C2004	1-126-941-11	s	ELECT 470uF 20% 25V
C2005	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C5001	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C5002	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C5003	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C5004	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
CN401	1-566-767-11	o	CONNECTOR 12P, MALE
CN402	1-565-877-11	s	CONNECTOR, PC BOARD 5P, MALE
CN403	1-565-875-11	o	CONNECTOR 3P, MALE
CN404	1-565-875-11	o	CONNECTOR 3P, MALE
CN405	1-565-875-11	o	CONNECTOR 3P, MALE
CN406	1-565-875-11	o	CONNECTOR 3P, MALE
CN407	1-566-761-11	o	CONNECTOR 6P, MALE
CN408	1-566-758-11	o	CONNECTOR 3P, MALE
CN409	1-580-716-11	o	CONNECTOR 13P, MALE
CN410	1-566-767-11	o	CONNECTOR 12P, MALE
CN411	1-566-765-11	o	CONNECTOR 10P, MALE
CN412	1-580-716-11	o	CONNECTOR 13P, MALE
CN413	1-566-758-11	o	CONNECTOR 3P, MALE
CN414	1-565-875-11	o	CONNECTOR 3P, MALE
CN415	1-565-875-11	o	CONNECTOR 3P, MALE
CN416	1-565-875-11	o	CONNECTOR 3P, MALE
CN417	1-565-875-11	o	CONNECTOR 3P, MALE
CN421	1-566-759-11	o	CONNECTOR 4P, MALE
CN1009	1-537-142-11	s	TERMINAL
D101	8-719-941-23	s	DIODE DA204U
D102	8-719-941-23	s	DIODE DA204U
D201	8-719-941-23	s	DIODE DA204U
D202	8-719-941-23	s	DIODE DA204U
D301	8-719-941-23	s	DIODE DA204U
D302	8-719-941-23	s	DIODE DA204U
D401	8-719-941-23	s	DIODE DA204U
D402	8-719-941-23	s	DIODE DA204U
D601	8-719-941-86	s	DIODE DAN202U
D602	8-719-941-86	s	DIODE DAN202U
D801	8-719-941-86	s	DIODE DAN202U
D802	8-719-941-86	s	DIODE DAN202U
D1004	8-719-157-36	s	DIODE RD6.8M-B
D1005	8-719-157-23	s	DIODE RD4.7M-B
D1006	8-719-157-36	s	DIODE RD6.8M-B
D1007	8-719-157-23	s	DIODE RD4.7M-B
D1008	8-719-157-23	s	DIODE RD4.7M-B
D1009	8-719-157-36	s	DIODE RD6.8M-B
D1010	8-719-157-23	s	DIODE RD4.7M-B
D1011	8-719-157-23	s	DIODE RD4.7M-B
D1012	8-719-157-36	s	DIODE RD6.8M-B
D1013	8-719-157-23	s	DIODE RD4.7M-B
D1014	8-719-157-23	s	DIODE RD4.7M-B
D1015	8-719-157-36	s	DIODE RD6.8M-B
D1016	8-719-157-23	s	DIODE RD4.7M-B
IC101	8-759-711-85	s	IC NJM4580E-D(T2)
IC201	8-759-711-85	s	IC NJM4580E-D(T2)
IC202	8-759-711-85	s	IC NJM4580E-D(T2)
IC301	8-759-711-85	s	IC NJM4580E-D(T2)
IC401	8-759-711-85	s	IC NJM4580E-D(T2)
IC551	8-759-702-03	s	IC NJM072BM
IC552	8-759-701-36	s	IC NJM3403AM
IC553	8-759-512-09	s	IC NJM386BM
IC554	8-759-512-09	s	IC NJM386BM
IC601	8-759-700-96	s	IC NJM5534M
IC602	8-759-711-85	s	IC NJM4580E-D(T2)
IC603	8-759-700-96	s	IC NJM5534M
IC701	8-759-700-96	s	IC NJM5534M
IC703	8-759-700-96	s	IC NJM5534M
IC801	8-759-700-96	s	IC NJM5534M
IC802	8-759-711-85	s	IC NJM4580E-D(T2)
IC803	8-759-700-96	s	IC NJM5534M
IC901	8-759-700-96	s	IC NJM5534M
IC903	8-759-700-96	s	IC NJM5534M
IC1001	8-759-079-49	s	IC TC74VHC04FS(EL)
IC1004	8-759-079-78	s	IC TC74VHC165FS(EL)
IC1007	8-759-234-20	s	IC TC7S08F
IC2001	8-759-937-54	s	IC S-81250HG-RD-S
L101	1-410-380-31	s	INDUCTOR, CHIP 8.2uH
L102	1-410-380-31	s	INDUCTOR, CHIP 8.2uH
L201	1-410-380-31	s	INDUCTOR, CHIP 8.2uH
L202	1-410-380-31	s	INDUCTOR, CHIP 8.2uH
L203	1-410-380-31	s	INDUCTOR, CHIP 8.2uH
L204	1-410-380-31	s	INDUCTOR, CHIP 8.2uH
L301	1-410-380-31	s	INDUCTOR, CHIP 8.2uH
L302	1-410-380-31	s	INDUCTOR, CHIP 8.2uH
L401	1-410-380-31	s	INDUCTOR, CHIP 8.2uH
L402	1-410-380-31	s	INDUCTOR, CHIP 8.2uH
L1001	1-410-371-41	s	INDUCTOR CHIP 1.5uH
Q551	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q601	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q602	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q701	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q702	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q801	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q802	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q901	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q902	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q1001	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1002	8-729-101-07	s	TRANSISTOR 2SB798
Q1003	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6 [for UC,SY]
Q1005	8-729-029-14	s	TRANSISTOR DTC144EUA-T106 [for UC,SY]
Q1006	8-729-807-87	s	TRANSISTOR 2SB1295-UL6
Q1007	8-729-809-47	s	TRANSISTOR 2SD1935-CT7
Q1008	8-729-807-87	s	TRANSISTOR 2SB1295-UL6
Q1009	8-729-809-47	s	TRANSISTOR 2SD1935-CT7
Q1010	8-729-807-87	s	TRANSISTOR 2SB1295-UL6
Q1011	8-729-809-47	s	TRANSISTOR 2SD1935-CT7

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Ref. No. or Q'ty	Part No.	SP	Description
Q1012	8-729-807-87	s	TRANSISTOR 2SB1295-UL6
Q1013	8-729-809-47	s	TRANSISTOR 2SD1935-CT7
Q1014	8-729-807-87	s	TRANSISTOR 2SB1295-UL6
Q1015	8-729-809-47	s	TRANSISTOR 2SD1935-CT7
Q1016	8-729-117-31	s	TRANSISTOR 2SC4177-L5 [for UC,SY]
Q1017	8-729-809-47	s	TRANSISTOR 2SD1935-CT7
Q1018	8-729-807-87	s	TRANSISTOR 2SB1295-UL6
Q1019	8-729-809-47	s	TRANSISTOR 2SD1935-CT7
Q1020	8-729-807-87	s	TRANSISTOR 2SB1295-UL6
Q2001	8-729-807-51	s	TRANSISTOR 2SD1623-S
Q2002	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
Q2003	8-729-028-83	s	TRANSISTOR DTA124EUA-T106
Q2004	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
Q2005	8-729-028-83	s	TRANSISTOR DTA124EUA-T106
R102	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R103	1-211-990-11	s	METAL, CHIP 75 0.5% 1/16W
R104	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R105	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R108	1-218-844-11	s	METAL, CHIP 750 0.5% 1/16W
R109	1-218-844-11	s	METAL, CHIP 750 0.5% 1/16W
R111	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R112	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R114	1-218-883-11	s	METAL, CHIP 33K 0.5% 1/16W
R115	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R116	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R117	1-218-663-11	s	METAL, CHIP 62 0.5% 1/16W
R118	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R119	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R120	1-216-295-00	s	RES, CHIP 0
R127	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R131	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R132	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R133	1-208-812-11	s	METAL, CHIP 18K 0.5% 1/10W
R134	1-211-990-11	s	METAL, CHIP 75 0.5% 1/16W
R135	1-208-812-11	s	METAL, CHIP 18K 0.5% 1/10W
R136	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R137	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R140	1-218-840-11	s	METAL, CHIP 510 0.5% 1/16W
R141	1-218-710-11	s	METAL, CHIP 5.6K 0.5% 1/16W
R142	1-218-838-11	s	METAL, CHIP 430 0.5% 1/16W
R143	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R144	1-218-710-11	s	METAL, CHIP 5.6K 0.5% 1/16W
R145	1-218-840-11	s	METAL, CHIP 510 0.5% 1/16W
R146	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R147	1-218-838-11	s	METAL, CHIP 430 0.5% 1/16W
R148	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R153	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R154	1-216-864-11	s	METAL, CHIP 0
R155	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R156	1-216-864-11	s	METAL, CHIP 0
R202	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R203	1-211-990-11	s	METAL, CHIP 75 0.5% 1/16W
R204	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R205	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R208	1-218-844-11	s	METAL, CHIP 750 0.5% 1/16W
R209	1-218-844-11	s	METAL, CHIP 750 0.5% 1/16W
R211	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R212	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R214	1-218-883-11	s	METAL, CHIP 33K 0.5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R215	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R216	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R217	1-218-663-11	s	METAL, CHIP 62 0.5% 1/16W
R218	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R219	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R220	1-216-864-11	s	METAL, CHIP 0
R221	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R222	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R223	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R224	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R225	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R227	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R231	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R232	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R233	1-208-812-11	s	METAL, CHIP 18K 0.5% 1/10W
R234	1-211-990-11	s	METAL, CHIP 75 0.5% 1/16W
R235	1-208-812-11	s	METAL, CHIP 18K 0.5% 1/10W
R236	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R237	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R240	1-218-840-11	s	METAL, CHIP 510 0.5% 1/16W
R241	1-218-710-11	s	METAL, CHIP 5.6K 0.5% 1/16W
R242	1-218-838-11	s	METAL, CHIP 430 0.5% 1/16W
R243	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R244	1-218-710-11	s	METAL, CHIP 5.6K 0.5% 1/16W
R245	1-218-840-11	s	METAL, CHIP 510 0.5% 1/16W
R246	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R247	1-218-838-11	s	METAL, CHIP 430 0.5% 1/16W
R248	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R253	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R254	1-216-864-11	s	METAL, CHIP 0
R255	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R256	1-216-864-11	s	METAL, CHIP 0
R301	1-211-990-11	s	METAL, CHIP 75 0.5% 1/16W
R302	1-211-990-11	s	METAL, CHIP 75 0.5% 1/16W
R303	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R304	1-218-844-11	s	METAL, CHIP 750 0.5% 1/16W
R305	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R306	1-218-844-11	s	METAL, CHIP 750 0.5% 1/16W
R308	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R309	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R310	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R311	1-218-883-11	s	METAL, CHIP 33K 0.5% 1/16W
R312	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R313	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R314	1-216-622-11	s	METAL, CHIP 62 0.5% 1/10W
R315	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R316	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R317	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R320	1-218-840-11	s	METAL, CHIP 510 0.5% 1/16W
R321	1-218-710-11	s	METAL, CHIP 5.6K 0.5% 1/16W
R322	1-218-838-11	s	METAL, CHIP 430 0.5% 1/16W
R323	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R324	1-218-710-11	s	METAL, CHIP 5.6K 0.5% 1/16W
R325	1-218-840-11	s	METAL, CHIP 510 0.5% 1/16W
R326	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R327	1-218-838-11	s	METAL, CHIP 430 0.5% 1/16W
R328	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R330	1-216-864-11	s	METAL, CHIP 0
R331	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SP	Description
R332	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R333	1-208-812-11	s	METAL, CHIP 18K 0.5% 1/10W
R334	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R335	1-208-812-11	s	METAL, CHIP 18K 0.5% 1/10W
R336	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R337	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R338	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R354	1-216-864-11	s	METAL, CHIP 0
R356	1-216-864-11	s	METAL, CHIP 0
R401	1-211-990-11	s	METAL, CHIP 75 0.5% 1/16W
R402	1-211-990-11	s	METAL, CHIP 75 0.5% 1/16W
R403	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R404	1-218-844-11	s	METAL, CHIP 750 0.5% 1/16W
R405	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R406	1-218-844-11	s	METAL, CHIP 750 0.5% 1/16W
R408	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R409	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R410	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R411	1-218-883-11	s	METAL, CHIP 33K 0.5% 1/16W
R412	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R413	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R414	1-218-663-11	s	METAL, CHIP 62 0.5% 1/16W
R415	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R416	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R417	1-211-990-11	s	METAL, CHIP 75 0.5% 1/16W
R420	1-218-840-11	s	METAL, CHIP 510 0.5% 1/16W
R421	1-218-710-11	s	METAL, CHIP 5.6K 0.5% 1/16W
R422	1-218-838-11	s	METAL, CHIP 430 0.5% 1/16W
R423	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R424	1-218-710-11	s	METAL, CHIP 5.6K 0.5% 1/16W
R425	1-218-840-11	s	METAL, CHIP 510 0.5% 1/16W
R426	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R427	1-218-838-11	s	METAL, CHIP 430 0.5% 1/16W
R428	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R430	1-216-864-11	s	METAL, CHIP 0
R431	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R432	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R433	1-208-812-11	s	METAL, CHIP 18K 0.5% 1/10W
R434	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R435	1-208-812-11	s	METAL, CHIP 18K 0.5% 1/10W
R436	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R437	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R438	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R454	1-216-864-11	s	METAL, CHIP 0
R456	1-216-864-11	s	METAL, CHIP 0
R530	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R531	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R532	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R533	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R534	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R541	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R542	1-216-295-00	s	RES, CHIP 0
R545	1-216-295-00	s	RES, CHIP 0
R548	1-216-864-11	s	METAL, CHIP 0
R551	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R552	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R553	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R554	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R555	1-216-849-11	s	METAL, CHIP 220K 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R556	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R558	1-216-864-11	s	METAL, CHIP 0
R561	1-216-662-11	s	METAL, CHIP 3K 0.5% 1/10W
R562	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R563	1-216-662-11	s	METAL, CHIP 3K 0.5% 1/10W
R564	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R567-574	1-216-864-11	s	METAL, CHIP 0
R575	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R576	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R577	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R578	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R579	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R580	1-218-756-11	s	METAL, CHIP 150K 0.5% 1/10W
R581	1-208-823-11	s	METAL, CHIP 51K 0.5% 1/10W
R582	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R583	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R584	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R585	1-218-756-11	s	METAL, CHIP 150K 0.5% 1/10W
R586	1-218-733-11	s	METAL, CHIP 51K 0.5% 1/16W
R588	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R589	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R591	1-216-001-00	s	METAL, CHIP 10 5% 1/10W
R592	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R593	1-208-800-11	s	METAL, CHIP 5.6K 0.5% 1/10W
R594	1-208-800-11	s	METAL, CHIP 5.6K 0.5% 1/10W
R595	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R596	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R597	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R598	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R603	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R604	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R605	1-218-868-11	s	METAL, CHIP 7.5K 0.5% 1/16W
R606	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R607	1-218-868-11	s	METAL, CHIP 7.5K 0.5% 1/16W
R608	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R609	1-218-672-11	s	METAL, CHIP 150 0.5% 1/16W
R610	1-218-677-11	s	METAL, CHIP 240 0.5% 1/16W
R611	1-218-868-11	s	METAL, CHIP 7.5K 0.5% 1/16W
R612	1-218-868-11	s	METAL, CHIP 7.5K 0.5% 1/16W
R613	1-216-803-11	s	METAL, CHIP 33 5% 1/16W
R614	1-216-803-11	s	METAL, CHIP 33 5% 1/16W
R615	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R616	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R617	1-216-067-00	s	METAL, CHIP 5.6K 5% 1/10W
R619	1-216-067-00	s	METAL, CHIP 5.6K 5% 1/10W
R620	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R621	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R622	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R625	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R630	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R632	1-218-836-11	s	METAL, CHIP 360 0.5% 1/16W
R633	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R634	1-216-611-11	s	METAL, CHIP 22 0.5% 1/10W
R703	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R704	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R705	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R706	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R707	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R708	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SP	Description
R709	1-216-631-11	s	METAL, CHIP 150 0.5% 1/10W
R710	1-208-767-11	s	METAL, CHIP 240 0.5% 1/10W
R711	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R712	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R713	1-216-013-00	s	METAL, CHIP 33 5% 1/10W
R714	1-216-013-00	s	METAL, CHIP 33 5% 1/10W
R715	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R716	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R717	1-216-067-00	s	METAL, CHIP 5.6K 5% 1/10W
R718	1-216-067-00	s	METAL, CHIP 5.6K 5% 1/10W
R720	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R721	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R722	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R725	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R730	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W
R732	1-218-836-11	s	METAL, CHIP 360 0.5% 1/16W
R733	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R734	1-211-977-11	s	METAL, CHIP 22 0.5% 1/16W
R803	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R804	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R805	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R806	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R807	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R808	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R809	1-216-631-11	s	METAL, CHIP 150 0.5% 1/10W
R810	1-208-767-11	s	METAL, CHIP 240 0.5% 1/10W
R811	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R812	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R813	1-216-013-00	s	METAL, CHIP 33 5% 1/10W
R814	1-216-803-11	s	METAL, CHIP 33 5% 1/16W
R815	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R816	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R817	1-216-067-00	s	METAL, CHIP 5.6K 5% 1/10W
R818	1-216-067-00	s	METAL, CHIP 5.6K 5% 1/10W
R820	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R821	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R822	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R825	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R830	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R832	1-208-771-11	s	METAL, CHIP 360 0.5% 1/10W
R833	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R834	1-216-611-11	s	METAL, CHIP 22 0.5% 1/10W
R903	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R904	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R905	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R906	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R907	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R908	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R909	1-216-631-11	s	METAL, CHIP 150 0.5% 1/10W
R910	1-208-767-11	s	METAL, CHIP 240 0.5% 1/10W
R911	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R912	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R913	1-216-013-00	s	METAL, CHIP 33 5% 1/10W
R914	1-216-013-00	s	METAL, CHIP 33 5% 1/10W
R915	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R916	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R917	1-216-067-00	s	METAL, CHIP 5.6K 5% 1/10W
R918	1-216-067-00	s	METAL, CHIP 5.6K 5% 1/10W
R920	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SP	Description
R921	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R922	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R925	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R930	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R932	1-208-771-11	s	METAL, CHIP 360 0.5% 1/10W
R933	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R934	1-216-611-11	s	METAL, CHIP 22 0.5% 1/10W
R1001	1-216-789-11	s	METAL, CHIP 2.2 5% 1/16W
R1002	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R1003	1-216-835-11	s	METAL, CHIP 15K 5% 1/16W
R1004	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R1005	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R1006	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R1007	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R1008	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R1014	1-216-864-11	s	METAL, CHIP 0
R1015	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W [for UC,SY]
R1016	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W [for UC,SY]
R1018	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R1019	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R1020	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R1021	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R1022	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R1023	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R1024	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R1025	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R1026	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R1027	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R1028	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R1029	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R1030	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R1031	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R1032	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R1033	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R1034	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R1035	1-216-070-00	s	METAL, CHIP 7.5K 5% 1/10W
R1036	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R1037	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R1038	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R1039	1-216-070-00	s	METAL, CHIP 7.5K 5% 1/10W
R1040	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R1041	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R1042-1047	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R1048	1-216-295-00	s	RES, CHIP 0
R1050	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W [for UC,SY]
R1051	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R1052	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R1053	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R1054	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R2001	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R2002	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
RV551	1-241-264-11	s	RES, ADJ, CERMET 10K

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Ref. No. or Q'ty	Part No.	SP	Description
S401	1-570-835-11	s	SWITCH, SLIDE
S402	1-570-845-11	s	SWITCH, SLIDE
S403	1-570-845-11	s	SWITCH, SLIDE
S404-408	1-570-863-11	s	SWITCH, SLIDE
S409	1-570-853-11	s	SWITCH, SLIDE
S410	1-570-863-11	s	SWITCH, SLIDE
S411	1-570-863-11	s	SWITCH, SLIDE
S412	1-570-863-11	s	SWITCH, SLIDE [for UC,SY]
S413	1-570-863-11	s	SWITCH, SLIDE [for UC,SY]
S414	1-570-863-11	s	SWITCH, SLIDE [for UC,SY]
S415	1-570-863-11	s	SWITCH, SLIDE [for UC,SY]
S416	1-571-217-11	s	SWITCH, SLIDE
S417	1-571-217-11	s	SWITCH, SLIDE
S418	1-571-217-11	s	SWITCH, SLIDE
S419	1-571-217-11	s	SWITCH, SLIDE
S420	1-571-087-11	s	SWITCH, SLIDE
S421	1-571-087-11	s	SWITCH, SLIDE
S422	1-571-087-11	s	SWITCH, SLIDE
S423	1-571-087-11	s	SWITCH, SLIDE
S424	1-570-853-11	s	SWITCH, SLIDE

CS-25 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-638-701-12	o	PRINTED CIRCUIT BOARD, CS-25
CN1	1-564-013-11	o	CONNECTOR 3P, MALE
PD3	8-719-939-05	s	PHOTOINTERRUPTER GP-1S54
R4	1-247-827-11	s	CARBON 680 5% 1/4W
R5	1-247-871-11	s	CARBON 47K 5% 1/4W

CS-26 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
7pcs	1-564-831-11	o	CONTACT, FEMALE
1pc	1-569-193-11	o	CONTACT, FEMALE
1pc	1-638-702-11	o	PRINTED CIRCUIT BOARD, CS-26
CN2	1-564-013-11	o	CONNECTOR 3P, MALE
CN957	1-569-200-21	o	HOUSING 7P
PD1	8-719-939-05	s	PHOTOINTERRUPTER GP-1S54
PD2	8-719-939-05	s	PHOTOINTERRUPTER GP-1S54
R1	1-249-413-11	s	CARBON 470 5% 1/4W
R2	1-247-871-11	s	CARBON 47K 5% 1/4W
R3	1-247-871-11	s	CARBON 47K 5% 1/4W

DC-85 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-658-773-11	o	PRINTED CIRCUIT BOARD, DC-85
CN1	1-565-875-11	o	CONNECTOR 3P, MALE
CN2	1-565-875-11	o	CONNECTOR 3P, MALE

DET-15 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-638-705-12	o	PRINTED CIRCUIT BOARD, DET-15
CN1	1-506-482-11	s	CONNECTOR 3P, MALE
PD1	8-719-939-05	s	PHOTOINTERRUPTER GP-1S54
R1	1-249-409-11	s	CARBON 220 5% 1/4W
R2	1-247-847-11	s	CARBON 4.7K 5% 1/4W

DET-26 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8276-926-A	o	MOUNTED CIRCUIT BOARD, DET-26
CN1	1-506-469-11	s	CONNECTOR 4P, MALE
PD1	8-719-988-15	s	PHTO REFLECTOR PR-11-C
PD2	8-719-988-15	s	PHTO REFLECTOR PR-11-C
Q1	8-729-117-32	s	TRANSISTOR 2SC4177
Q2	8-729-117-32	s	TRANSISTOR 2SC4177
R1	1-216-041-11	s	METAL, CHIP 470 5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R2	1-216-109-00	s	METAL, CHIP 330K 5% 1/10W
R3	1-216-109-00	s	METAL, CHIP 330K 5% 1/10W

DIF-31 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8276-928-A	o	MOUNTED CIRCUIT BOARD, DIF-31
C100	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C105	1-162-907-11	s	CERAMIC, CHIP 2PF 50V
C107-120	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C121	1-163-121-00	s	CERAMIC, CHIP 150PF 5% 50V
C122	1-164-217-11	s	CERAMIC, CHIP 150PF 5% 50V
C123	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C124	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C129	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C300	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C301	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C302	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C303	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C304	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C305	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C306	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C307	1-164-363-11	s	CERAMIC, CHIP 560PF 5% 50V
C308	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C309	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C310	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C311	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C312	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C313	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C314	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C315-319	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C321	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C346	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C348	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C349	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C350	1-165-128-11	s	CERAMIC, CHIP 0.22uF 16V
C351	1-165-128-11	s	CERAMIC, CHIP 0.22uF 16V
C352-356	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C357-362	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C364	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C365	1-161-485-00	s	CERAMIC 0.1uF 50V
C370	1-135-159-21	s	TANTALUM, CHIP 10uF 10% 20V
C500-504	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C505	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C506	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C507	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C508	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C509	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C510	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C511	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C512	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C513	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
CN205	1-750-667-11	s	CONNECTOR, BOARD TO BOARD 100P
CN251	1-750-880-11	s	CONNECTOR, COAXIAL, FEMALE
CN252	1-750-880-11	s	CONNECTOR, COAXIAL, FEMALE
CN253	1-750-880-11	s	CONNECTOR, COAXIAL, FEMALE
CN254	1-750-880-11	s	CONNECTOR, COAXIAL, FEMALE
D1	8-719-912-20	s	DIODE ISS120
D200	8-719-157-36	s	DIODE RD6.8M-B
FB300-305	1-543-309-21	s	BEAD, FERRITE
FB310	1-543-309-21	s	BEAD, FERRITE

(DIF-31 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
IC100	8-759-079-94	s	IC TC74VHC368FS(EL)
IC101	8-759-080-06	s	IC TC74VHC574FS(EL)
IC102	8-759-080-06	s	IC TC74VHC574FS(EL)
IC104	8-759-080-03	s	IC TC74VHCT541FS(EL)
IC105	8-759-147-05	s	IC UPD42101G-3
IC106	8-759-147-05	s	IC UPD42101G-3
IC107	8-759-519-12	s	IC CXD8281Q
IC108	8-759-172-73	s	IC CXD8385Q
IC110	8-741-601-11	s	IC SBX1601A
IC300	8-759-054-61	s	IC CLC505AJE
IC301	8-741-602-03	s	IC SBX1602A
IC302	8-759-079-49	s	IC TC74VHC04FS(EL)
IC303	8-759-079-52	s	IC TC74VHC08FS(EL)
IC304	8-759-079-60	s	IC TC74VHC32FS(EL)
IC305	8-759-172-72	s	IC CXD8386AQ
IC306	8-759-079-94	s	IC TC74VHC368FS(EL)
IC308	8-759-079-61	s	IC TC74VHC74FS(EL)
IC309	8-759-080-06	s	IC TC74VHC574FS(EL)
IC310	8-759-080-06	s	IC TC74VHC574FS(EL)
IC311	8-759-080-06	s	IC TC74VHC574FS(EL)
IC312	8-759-289-69	s	IC CXD8280AQ
IC313	8-759-186-32	s	TC74VHC21F
IC500	8-759-079-87	s	IC TC74VHC245FS(EL)
IC501	8-759-079-70	s	IC TC74VHC138FS(EL)
IC502	8-759-233-56	s	IC TC74HC688AF
IC503	8-759-079-49	s	IC TC74VHC04FS(EL)
IC504	8-759-079-60	s	IC TC74VHC32FS(EL)
IC505	8-759-079-61	s	IC TC74VHC74FS(EL)
IC506	8-759-079-60	s	IC TC74VHC32FS(EL)
IC508	8-759-080-06	s	IC TC74VHC574FS(EL)
IC511	8-759-079-69	s	IC TC74VHC132FS(EL)
L100	1-410-733-11	s	INDUCTOR CHIP 0.22uH
Q100	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q101	8-729-143-46	s	TRANSISTOR 2SC3356-R24
Q102	8-729-143-46	s	TRANSISTOR 2SC3356-R24
Q103	8-729-143-46	s	TRANSISTOR 2SC3356-R24
Q104	8-729-420-74	s	TRANSISTOR 2SD1328-RST
Q300	8-729-143-46	s	TRANSISTOR 2SC3356-R24
Q301	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q302	8-729-216-22	s	TRANSISTOR 2SA1162
Q303	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q306	8-729-420-74	s	TRANSISTOR 2SD1328-RST
Q307-328	8-729-024-56	s	TRANSISTOR 2SA1808-P
Q330	8-729-420-74	s	TRANSISTOR 2SD1328-RST
Q500	8-729-807-51	s	TRANSISTOR 2SD1623-S
Q501	8-729-101-07	s	TRANSISTOR 2SB798
R102	1-216-864-11	s	METAL, CHIP 0
R114-119	1-216-864-11	s	METAL, CHIP 0
R130	1-216-864-11	s	METAL, CHIP 0
R131	1-216-864-11	s	METAL, CHIP 0
R132	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R133	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R134	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R137	1-216-864-11	s	METAL, CHIP 0
R138	1-216-864-11	s	METAL, CHIP 0
R141	1-216-864-11	s	METAL, CHIP 0
R143-149	1-216-864-11	s	METAL, CHIP 0

(DIF-31 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R159	1-216-864-11	s	METAL, CHIP 0
R160	1-216-864-11	s	METAL, CHIP 0
R161	1-216-864-11	s	METAL, CHIP 0
R175	1-216-864-11	s	METAL, CHIP 0
R181	1-216-864-11	s	METAL, CHIP 0
R182	1-216-864-11	s	METAL, CHIP 0
R188	1-216-864-11	s	METAL, CHIP 0
R191-195	1-216-864-11	s	METAL, CHIP 0
R213-218	1-216-864-11	s	METAL, CHIP 0
R230	1-216-839-11	s	METAL, CHIP 33K 5% 1/16W
R231	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R232	1-216-839-11	s	METAL, CHIP 33K 5% 1/16W
R233	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R235	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R236	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R237	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R238	1-218-881-11	s	METAL, CHIP 27K 0.5% 1/16W
R239	1-211-981-11	s	METAL, CHIP 33 0.5% 1/16W
R240	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R241	1-211-990-11	s	METAL, CHIP 75 0.5% 1/16W
R243	1-211-991-11	s	METAL, CHIP 82 0.5% 1/16W
R242	1-211-981-11	s	METAL, CHIP 33 0.5% 1/16W
R244	1-218-672-11	s	METAL, CHIP 150 0.5% 1/16W
R245	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R246	1-218-664-11	s	METAL, CHIP 68 0.5% 1/16W
R247	1-216-864-11	s	METAL, CHIP 0
R300	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R301	1-211-991-11	s	METAL, CHIP 82 0.5% 1/16W
R302	1-211-990-11	s	METAL, CHIP 75 0.5% 1/16W
R303	1-211-990-11	s	METAL, CHIP 75 0.5% 1/16W
R304	1-218-834-11	s	METAL, CHIP 300 0.5% 1/16W
R305	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R306	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R307	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R308	1-218-829-11	s	METAL, CHIP 180 0.5% 1/16W
R309	1-216-864-11	s	METAL, CHIP 0
R310	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R311	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R312	1-218-725-11	s	METAL, CHIP 24K 0.5% 1/16W
R313	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R314	1-218-741-11	s	METAL, CHIP 110K 0.5% 1/16W
R315	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R316	1-211-991-11	s	METAL, CHIP 82 0.5% 1/16W
R317	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R318	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R319	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R320	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R321	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R324	1-218-733-11	s	METAL, CHIP 51K 0.5% 1/16W
R325	1-218-296-11	s	METAL, CHIP 75K 5% 1/16W
R326	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R334	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R337	1-218-660-11	s	METAL, CHIP 47 0.5% 1/16W
R338	1-218-829-11	s	METAL, CHIP 180 0.5% 1/16W
R344-349	1-218-660-11	s	METAL, CHIP 47 0.5% 1/16W
R350-355	1-218-833-11	s	METAL, CHIP 270 0.5% 1/16W
R361-365	1-218-660-11	s	METAL, CHIP 47 0.5% 1/16W
R366-370	1-218-833-11	s	METAL, CHIP 270 0.5% 1/16W
R374-380	1-216-864-11	s	METAL, CHIP 0

(DIF-31 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R382	1-216-864-11	s	METAL, CHIP 0
R383	1-216-864-11	s	METAL, CHIP 0
R384	1-216-864-11	s	METAL, CHIP 0
R387	1-216-864-11	s	METAL, CHIP 0
R389	1-216-864-11	s	METAL, CHIP 0
R391	1-216-864-11	s	METAL, CHIP 0
R397	1-216-864-11	s	METAL, CHIP 0
R398	1-216-864-11	s	METAL, CHIP 0
R403	1-216-864-11	s	METAL, CHIP 0
R411	1-216-864-11	s	METAL, CHIP 0
R419	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R420	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R422	1-216-864-11	s	METAL, CHIP 0
R432	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R433	1-218-873-11	s	METAL, CHIP 12K 0.5% 1/16W
R434	1-216-854-11	s	METAL, CHIP 560K 5% 1/16W
R435	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R436	1-216-864-11	s	METAL, CHIP 0
R437	1-216-813-11	s	METAL, CHIP 220 5% 1/16W
R439	1-216-864-11	s	METAL, CHIP 0
R444	1-216-864-11	s	METAL, CHIP 0
R446	1-216-864-11	s	METAL, CHIP 0
R448	1-216-864-11	s	METAL, CHIP 0
R450	1-216-864-11	s	METAL, CHIP 0
R451	1-216-864-11	s	METAL, CHIP 0
R452	1-216-864-11	s	METAL, CHIP 0
R455	1-216-864-11	s	METAL, CHIP 0
R456	1-216-864-11	s	METAL, CHIP 0
R500	1-216-864-11	s	METAL, CHIP 0
R502	1-216-864-11	s	METAL, CHIP 0
R504	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R507	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R515	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R516	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R517	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R518	1-216-818-11	s	METAL, CHIP 560 5% 1/16W
R519	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R520	1-218-840-11	s	METAL, CHIP 510 0.5% 1/16W
RB100	1-239-407-11	s	NETWORK RESISTOR (CHIP) 330
RB102	1-239-389-11	s	NETWORK RESISTOR (CHIP) 47K
RB103	1-239-407-11	s	NETWORK RESISTOR (CHIP) 330
RB105	1-239-389-11	s	NETWORK RESISTOR (CHIP) 47K
RB106	1-239-407-11	s	NETWORK RESISTOR (CHIP) 330
RB107	1-239-407-11	s	NETWORK RESISTOR (CHIP) 330
RB108	1-239-389-11	s	NETWORK RESISTOR (CHIP) 47K
RB111	1-239-416-11	s	NETWORK RESISTOR (CHIP) 220
RB112	1-239-416-11	s	NETWORK RESISTOR (CHIP) 220
RB300	1-239-389-11	s	NETWORK RESISTOR (CHIP) 47K
RB301	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0
RB310	1-239-423-11	s	NETWORK RESISTOR (CHIP) 1.2K
RB311	1-239-423-11	s	NETWORK RESISTOR (CHIP) 1.2K
RB312	1-239-423-11	s	NETWORK RESISTOR (CHIP) 1.2K
RB500	1-239-412-11	s	NETWORK RESISTOR (CHIP) 100
RB501	1-239-412-11	s	NETWORK RESISTOR (CHIP) 100
RB502	1-239-412-11	s	NETWORK RESISTOR (CHIP) 100
RV100	1-237-036-11	s	RES, ADJ METAL 10K
RV300	1-237-036-11	s	RES, ADJ METAL 10K

(DIF-31 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
S300	1-692-881-21	s	SWITCH, SLIDE

DPR-62/62P BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8276-944-A	o	MOUNTED CIRCUIT BOARD, DPR-62 [for NTSC]
	A-8276-946-A	o	MOUNTED CIRCUIT BOARD, DPR-62P [for PAL]

This board include APR-20 board.

Ref. No. or Q'ty	Part No.	SP	Description
C1	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C2	1-128-391-11	s	ELECT 330uF 20% 6.3V
C4	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C7-12	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C13	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C14	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C15	1-110-985-11	s	ELECT 0.0012F 20% 6.3V
C16	1-128-391-11	s	ELECT 330uF 20% 6.3V
C17	1-128-391-11	s	ELECT 330uF 20% 6.3V
C18	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C19-24	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C27	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C28	1-110-985-11	s	ELECT 0.0012F 20% 6.3V
C100	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C105	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C110	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C111	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C113	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C114	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C115	1-135-091-00	s	TANTALUM, CHIP 1uF 20% 16V
C116	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C117	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C120	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C121	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C123	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C124	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C128	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C130	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C200	1-126-412-11	s	ELECT, CHIP 220uF 20% 4V
C201	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C202	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C203	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C204	1-126-412-11	s	ELECT, CHIP 220uF 20% 4V
C205-210	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C211	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C212	1-135-210-11	s	TANTALUM, CHIP 4.7uF 20% 10V [for PAL]
C213	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C217	1-135-091-00	s	TANTALUM, CHIP 1uF 20% 16V
C219	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C221	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C225	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C229	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C232	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C235	1-135-138-11	s	TANTALUM 10uF 20% 25V [for NTSC]
	1-135-167-21	s	TANTALUM, CHIP 68uF 20% 6.3V [for PAL]
C238	1-135-138-11	s	TANTALUM 10uF 20% 25V [for NTSC]
	1-135-167-21	s	TANTALUM, CHIP 68uF 20% 6.3V [for PAL]
C239	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C240	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C300-313	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V

Ref. No. or Q'ty	Part No.	SP	Description
C314	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
C334	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C336	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C338	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C339	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C340	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C341	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C342	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C343	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C344	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C347	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C348	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C350	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C351	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C352	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C353	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C355	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C356	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C360	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C500	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C501	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C502	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C504	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C505	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C507	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C508	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C510	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C512	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C513	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C514	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C515	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C600-606	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C608	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C610	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C612	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C700-723	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C800	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C801	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C804	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C805	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C812	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C814	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C816	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C818	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C820	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C822	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C824	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C826	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C828	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C830	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C832	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C834	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C836	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C839-846	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V

Ref. No. or Q'ty	Part No.	SP	Description
C901	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C903	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C905	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C907	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C909	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C911	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C913	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C915	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]

Ref. No. or Q'ty	Part No.	SP	Description
C917	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C919	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C1000	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C1001	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C1002	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C1003	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1004	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C1005	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1006	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C1007	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1008	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C1009	1-164-489-11	s	CERAMIC, CHIP 0.22uF 10% 16V
C1010	1-164-489-11	s	CERAMIC, CHIP 0.22uF 10% 16V
C1011-1015	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1018	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1019	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1100	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C1101	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C1102-1109	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1110	1-162-921-11	s	CERAMIC, CHIP 33PF 5% 50V
C1111	1-162-921-11	s	CERAMIC, CHIP 33PF 5% 50V
C1112-1121	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1122	1-162-925-11	s	CERAMIC, CHIP 68PF 5% 50V
C1123	1-162-925-11	s	CERAMIC, CHIP 68PF 5% 50V
C1124	1-162-925-11	s	CERAMIC, CHIP 68PF 5% 50V
C1125	1-162-925-11	s	CERAMIC, CHIP 68PF 5% 50V
C1126	1-162-918-11	s	CERAMIC, CHIP 18PF 5% 50V
C1127	1-162-918-11	s	CERAMIC, CHIP 18PF 5% 50V
C1128-1133	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1134-1141	1-162-957-11	s	CERAMIC, CHIP 220PF 5% 50V
C1142-1146	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1147	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C1148	1-162-967-11	s	CERAMIC, CHIP 0.0033uF 10% 50V
C1149	1-162-967-11	s	CERAMIC, CHIP 0.0033uF 10% 50V
C1150-1154	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V

Ref. No. or Q'ty	Part No.	SP	Description
C1155	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V
C1156	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V
C1157	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1158	1-162-921-11	s	CERAMIC, CHIP 33PF 5% 50V
C1159	1-162-921-11	s	CERAMIC, CHIP 33PF 5% 50V
C1160	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V
C1161	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V
C1162	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1163	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1200	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C1202	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C1204	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C1206	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C1208	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C1210	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C1212	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C1214	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C1216	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C1218	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C1220	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C1222	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C1224	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C1226	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C1228	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]

Ref. No. or Q'ty	Part No.	SP	Description
C1230	1-162-995-11	s	CERAMIC, CHIP 0.022uF 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C1300	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1301	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1302	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1303	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1304	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V [for PAL]
C1305	1-162-921-11	s	CERAMIC, CHIP 33PF 5% 50V
C1306	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V [for NTSC]
C1307	1-162-957-11	s	CERAMIC, CHIP 220PF 5% 50V
C1308	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for PAL]
C1309	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1310	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C1311	1-104-547-11	s	FILM, CHIP 0.0047uF 5% 16V [for PAL]
C1312	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1313	1-164-315-11	s	CERAMIC, CHIP 470PF 5% 50V
C1314	1-162-957-11	s	CERAMIC, CHIP 220PF 5% 50V
C1315	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1316	1-104-547-11	s	FILM, CHIP 0.0047uF 5% 16V [for PAL]
C1317	1-162-957-11	s	CERAMIC, CHIP 220PF 5% 50V
C1318	1-164-315-11	s	CERAMIC, CHIP 470PF 5% 50V [for NTSC]
C1319	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V [for NTSC]
C1320	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1321	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V [for NTSC]
C1323	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C1324	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1326	1-135-085-21	s	TANTALUM, CHIP 4.7uF 20% 25V [for PAL]
C1327	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1328	1-135-085-21	s	TANTALUM, CHIP 4.7uF 20% 25V [for PAL]
C1329	1-104-559-11	s	FILM, CHIP 0.047uF 5% 16V
C1330	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1331	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1332	1-164-315-11	s	CERAMIC, CHIP 470PF 5% 50V
C1333	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C1334	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1336	1-162-911-11	s	CERAMIC, CHIP 6PF 50V
C1337	1-162-907-11	s	CERAMIC, CHIP 2PF 50V
C1338	1-162-921-11	s	CERAMIC, CHIP 33PF 5% 50V
C1339	1-162-921-11	s	CERAMIC, CHIP 33PF 5% 50V

Ref. No. or Q'ty	Part No.	SP	Description
C1340	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for PAL]
C1341	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for PAL]
C1342	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1343	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1344	1-164-489-11	s	CERAMIC, CHIP 0.22uF 10% 16V
C1345	1-135-179-21	s	TANTALUM 2.2uF 10% 16V
C1346	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1347	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1348	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1350	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1351	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1353	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1355	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C1356	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1358	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1359	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C1360	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1361	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1362	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C1363-1369	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1370	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C1371	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1372	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1373	1-162-925-11	s	CERAMIC, CHIP 68PF 5% 50V
C1374	1-162-957-11	s	CERAMIC, CHIP 220PF 5% 50V
C1375	1-162-925-11	s	CERAMIC, CHIP 68PF 5% 50V
C1376	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1377	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1378	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1379	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1380	1-164-218-11	s	CERAMIC, CHIP 180PF 50V [for NTSC]
C1381	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1382	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for PAL]
C1383	1-162-928-11	s	CERAMIC, CHIP 120PF 5% 50V [for NTSC]
	1-164-217-11	s	CERAMIC 150PF 5% 50V [for PAL]
C1384	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for PAL]
C1385	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1386	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1387	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for PAL]
C1388	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V [for PAL]
C1389	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for PAL]
C1390	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1391	1-162-925-11	s	CERAMIC, CHIP 68PF 5% 50V [for PAL]
C1392	1-162-957-11	s	CERAMIC, CHIP 220PF 5% 50V [for PAL]
C1393	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C1394	1-162-925-11	s	CERAMIC, CHIP 68PF 5% 50V [for PAL]
C1395	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C1396	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for PAL]
C1397	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1398	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for PAL]
C1399	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V [for PAL]
C1400	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1401	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C1402	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1403	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V

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Ref. No. or Q'ty	Part No.	SP	Description
C1404	1-162-963-11	s	CERAMIC, CHIP 680PF 10% 50V
C1405	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C1406	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1408	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1410	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C1411	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1413	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1415	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1416	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1417	1-135-227-11	s	TANTALUM, CHIP 100uF 20% 6.3V
C1418	1-135-227-11	s	TANTALUM, CHIP 100uF 20% 6.3V
C1419	1-135-227-11	s	TANTALUM, CHIP 100uF 20% 6.3V
C1420	1-135-227-11	s	TANTALUM, CHIP 100uF 20% 6.3V
C1421	1-135-161-21	s	TANTALUM, CHIP 22uF 10% 10V
C1422	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1423	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1424	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1425	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1427	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1428	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1430	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1433	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1434	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C1450	1-162-718-11	s	CERAMIC 220PF 1% 50V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C1600	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1601	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1602	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C1603	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C2500	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C2501	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C2502	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
CN201	1-774-269-11	s	CONNECTOR, BOARD TO BOARD 30P
CN202	1-774-269-11	s	CONNECTOR, BOARD TO BOARD 30P
CN203	1-774-268-11	s	CONNECTOR, BOARD TO BOARD 26P
CN204	1-774-266-11	s	CONNECTOR, BOARD TO BOARD 18P
CN205	1-750-667-11	s	CONNECTOR, BOARD TO BOARD 100P
CN206	1-566-765-11	o	CONNECTOR 10P, MALE
CN207	1-566-767-11	o	CONNECTOR 12P, MALE
CN208	1-566-761-11	o	CONNECTOR 6P, MALE
CN211	1-565-430-11	s	SOCKET, SIL 10P
CN212	1-573-201-11	s	SOCKET, SIL 5P
CN213	1-573-201-11	s	SOCKET, SIL 5P
CN908	1-774-267-11	s	CONNECTOR, BOARD TO BOARD 20P
CN909	1-774-269-11	s	CONNECTOR, BOARD TO BOARD 30P
CN910	1-774-269-11	s	CONNECTOR, BOARD TO BOARD 30P
CN911	1-774-269-11	s	CONNECTOR, BOARD TO BOARD 30P
CP100	1-760-275-11	s	VCO, CRYSTAL 27.00000000MHz
CP200	1-760-277-11	s	VCO, CRYSTAL 28.63636000MHz [for NTSC]
	1-760-263-11	s	VCO, CRYSTAL 35.46895000MHz [for PAL]
CP1100	1-760-847-21	s	OSCILLATOR, CRYSTAL 33.07825000MHz [for NTSC]
	1-760-846-11	s	OSCILLATOR, CRYSTAL 32.51435000MHz [for PAL]
CP1300	1-760-267-11	s	VCO, CRYSTAL 14.31818000MHz [for NTSC]
	1-760-268-11	s	VCO, CRYSTAL 17.73447500MHz [for PAL]

Ref. No. or Q'ty	Part No.	SP	Description
CP1301	1-577-223-11	s	VCO 24.576MHz
CP1302	1-760-275-11	s	VCO, CRYSTAL 27.00000000MHz
D100	8-719-941-23	s	DIODE DA204U [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
D200	8-719-941-23	s	DIODE DA204U [for PAL]
D301	8-719-941-23	s	DIODE DA204U
D302	8-719-023-69	s	DIODE SB007T03Q
D303	8-719-023-69	s	DIODE SB007T03Q
D304	8-719-023-69	s	DIODE SB007T03Q
D305	8-719-941-23	s	DIODE DA204U
D1100	8-719-941-23	s	DIODE DA204U
D1300	8-719-941-23	s	DIODE DA204U [for NTSC]
D1301-1305	8-719-941-23	s	DIODE DA204U
D1306	8-719-123-82	s	DIODE 1SS303-T1
D1307	8-719-023-69	s	DIODE SB007T03Q
D1308	8-719-123-82	s	DIODE 1SS303-T1
D1400	8-719-941-23	s	DIODE DA204U
FB1	1-543-309-21	s	BEAD, FERRITE
FB2	1-543-309-21	s	BEAD, FERRITE
FB101	1-543-309-21	s	BEAD, FERRITE
FB201	1-543-309-21	s	BEAD, FERRITE
FB1301	1-543-309-21	s	BEAD, FERRITE
FB1303	1-543-309-21	s	BEAD, FERRITE
FB1304	1-543-309-21	s	BEAD, FERRITE
IC4	8-759-079-85	s	IC TC74VHC244FS(EL)
IC20	8-759-079-85	s	IC TC74VHC244FS(EL)
IC21	8-759-079-85	s	IC TC74VHC244FS(EL)
IC22	8-759-079-85	s	IC TC74VHC244FS(EL)
IC25	8-759-079-49	s	IC TC74VHC04FS(EL)
IC26	8-759-079-52	s	IC TC74VHC08FS(EL)
IC105	8-759-234-20	s	IC TC7S08F
IC111	8-759-080-02	s	IC TC74VHC541FS(EL)
IC112	8-759-359-12	s	IC DS1000Z-100
IC113	8-752-306-51	s	IC CX23065A
IC114	8-759-105-49	s	IC UPC319G2
IC116	8-752-360-90	s	IC CXD303-101Q [for NTSC]
IC117-203	8-759-079-74	s	IC TC74VHC157FS(EL)
IC204	8-759-517-31	s	IC S-8052-ANY-NH
IC205	8-759-249-01	s	IC CXD8382BQ
IC206	8-759-080-02	s	IC TC74VHC541FS(EL)
IC207	8-759-079-87	s	IC TC74VHC245FS(EL)
IC208	8-752-306-51	s	IC CX23065A
IC209	8-759-277-19	s	IC UPD485505G-35
IC210	8-759-079-46	s	IC TC74VHC00FS(EL)
IC211	8-759-030-16	s	IC MC34182M
IC212	8-759-277-19	s	IC UPD485505G-35
IC213	8-759-234-77	s	IC TC4S66F [for PAL]
IC214	8-759-082-55	s	IC TC7W00FU [for PAL]
IC300	8-759-079-52	s	IC TC74VHC08FS(EL)
IC301	8-759-079-86	s	IC TC74VHCT244FS(EL)
IC302	8-759-927-12	s	IC SN74HCT244ANS
IC303	8-759-269-09	s	IC SN74HCT04ANS

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Ref. No. or Q'ty	Part No.	SP	Description
IC304	8-759-940-45	s	IC S-8054HN-CB
IC305	8-759-369-50	o	IC UPD78014DPR62305V102
IC306	8-759-097-51	s	IC MSM6524GS-VKR2
IC307	8-759-082-57	s	IC TC7W04FU
IC309	8-759-080-02	s	IC TC74VHC541FS(EL)
IC310	8-759-277-19	s	IC UPD485505G-35
IC311	8-759-277-19	s	IC UPD485505G-35
IC312	8-759-277-19	s	IC UPD485505G-35
IC313	8-759-186-54	s	IC TC74VHC164F
IC314	8-759-080-03	s	IC TC74VHCT541FS(EL)
IC316	8-759-079-86	s	IC TC74VHCT244FS(EL)
IC317	8-759-080-03	s	IC TC74VHCT541FS(EL) [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
IC500	8-759-080-02	s	IC TC74VHC541FS(EL)
IC501	8-759-188-02	s	IC CXD8854Q
IC503	8-759-186-84	s	IC TC74VHC86F
IC600	8-759-349-09	s	IC UPD434008LE-20-P
IC601	8-759-349-09	s	IC UPD434008LE-20-P
IC602	8-759-349-09	s	IC UPD434008LE-20-P
IC603	8-759-177-52	s	IC HM62W8127HJP-27
IC604	8-759-177-52	s	IC HM62W8127HJP-27
IC605	8-759-177-52	s	IC HM62W8127HJP-27
IC606	8-759-177-52	s	IC HM62W8127HJP-27
IC701	8-759-177-53	s	IC HM62W8127HJP-35
IC702	8-759-177-53	s	IC HM62W8127HJP-35
IC704	8-759-177-53	s	IC HM62W8127HJP-35
IC705	8-759-177-53	s	IC HM62W8127HJP-35
IC707	8-759-177-49	s	IC HM62W9127HJP-35
IC708	8-759-177-49	s	IC HM62W9127HJP-35
IC800	8-759-079-60	s	IC TC74VHC32FS(EL)
IC801	8-759-079-87	s	IC TC74VHC245FS(EL)
IC802	8-759-080-02	s	IC TC74VHC541FS(EL)
IC803	8-759-175-60	s	IC SN74LVT245NS-E05
IC808	8-759-080-06	s	IC TC74VHC574FS(EL)
IC809	8-759-080-06	s	IC TC74VHC574FS(EL)
IC811	8-759-349-09	s	IC UPD434008LE-20-P
IC812	8-759-349-09	s	IC UPD434008LE-20-P
IC813	8-759-349-09	s	IC UPD434008LE-20-P
IC1000	8-759-079-74	s	IC TC74VHC157FS(EL)
IC1001	8-759-079-74	s	IC TC74VHC157FS(EL)
IC1002	8-759-080-02	s	IC TC74VHC541FS(EL)
IC1003	8-759-079-80	s	IC TC74VHC175FS(EL)
IC1005	8-759-177-53	s	IC HM62W8127HJP-35
IC1006	8-759-079-52	s	IC TC74VHC08FS(EL)
IC1007	8-759-195-81	s	IC TC7S86FU
IC1008	8-759-079-60	s	IC TC74VHC32FS(EL)
IC1009	8-759-079-52	s	IC TC74VHC08FS(EL)
IC1011	8-759-186-43	s	IC TC74VHC123AF
IC1013	8-759-080-06	s	IC TC74VHC574FS(EL)
IC1014	8-759-079-80	s	IC TC74VHC175FS(EL)
IC1015	8-759-079-61	s	IC TC74VHC74FS(EL) [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
IC1016	8-759-196-96	s	IC TC7SH08FU-TE85R [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]

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Ref. No. or Q'ty	Part No.	SP	Description
IC1017	8-759-196-96	s	IC TC7SH08FU-TE85R [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
IC1103	8-759-080-02	s	IC TC74VHC541FS(EL)
IC1104	8-759-079-46	s	IC TC74VHC00FS(EL)
IC1105	8-752-377-24	s	IC CXD306-138Q
IC1106	8-759-079-46	s	IC TC74VHC00FS(EL)
IC1107	8-759-174-16	s	IC TC74VHC244F
IC1108	8-759-079-74	s	IC TC74VHC157FS(EL)
IC1109	8-759-079-74	s	IC TC74VHC157FS(EL)
IC1111	8-752-377-24	s	IC CXD306-138Q
IC1112	8-759-080-02	s	IC TC74VHC541FS(EL)
IC1113	8-759-186-84	s	IC TC74VHC86F
IC1114	8-759-080-02	s	IC TC74VHC541FS(EL)
IC1115	8-759-080-02	s	IC TC74VHC541FS(EL)
IC1116	8-759-112-53	s	IC UPC1663G
IC1117	8-759-112-53	s	IC UPC1663G
IC1118	8-759-030-55	s	IC MC1496M
IC1119	8-759-030-55	s	IC MC1496M
IC1120	8-759-082-53	s	IC TLC274CPW
IC1121	8-759-079-74	s	IC TC74VHC157FS(EL)
IC1122	8-759-080-06	s	IC TC74VHC574FS(EL)
IC1124	8-759-082-58	s	IC TC7W08FU
IC1300	8-759-195-81	s	IC TC7S86FU [for PAL]
IC1301	8-759-014-29	s	IC MC34184M [for PAL]
IC1302	8-759-009-07	s	IC MC14053BF [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	8-759-300-71	s	IC HD14053BFP [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
IC1303	8-759-987-27	s	IC LM1881M
IC1304	8-759-239-58	s	IC TC74HC221AF
IC1305	8-752-306-51	s	IC CX23065A [for NTSC]
IC1306	8-759-030-16	s	IC MC34182M [for PAL]
IC1307	8-759-262-03	s	IC MC14577CF
IC1308	8-759-030-16	s	IC MC34182M
IC1309	8-759-702-08	s	IC NJM360M
IC1310	8-759-925-05	s	IC LM2903PS [for PAL]
IC1311	8-759-082-57	s	IC TC7W04FU
IC1312	8-759-184-64	s	IC TC4W66FU
IC1313	8-759-035-93	s	IC SC7S32F [for PAL]
IC1314	8-759-702-08	s	IC NJM360M
IC1315	8-759-907-81	s	IC SN74LS221NS
IC1316	8-759-175-66	s	IC CXD8817Q
IC1317	8-759-014-29	s	IC MC34184M
IC1318	8-759-907-81	s	IC SN74LS221NS
IC1319	8-759-082-57	s	IC TC7W04FU
IC1320	8-752-334-64	s	IC CXD1171M
IC1321	8-759-926-15	s	IC SN74HC151ANS
IC1322	8-759-234-20	s	IC TC7S08F
IC1323	8-759-082-57	s	IC TC7W04FU
IC1324	8-759-186-53	s	IC TC74VHC163F
IC1325	8-759-925-05	s	IC LM2903PS
IC1326	8-759-702-08	s	IC NJM360M
IC1327	8-759-186-39	s	IC TC74VHC74F

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Ref. No. or Q'ty	Part No.	SP	Description
IC1328	8-759-907-81	s	IC SN74LS221NS
IC1329	8-752-334-64	s	IC CXD1171M [for PAL]
IC1330	8-759-082-61	s	IC TC4W53FU
IC1331	8-759-080-02	s	IC TC74VHC541FS(EL)
IC1332	8-752-306-51	s	IC CX23065A
IC1333	8-759-702-08	s	IC NJM360M [for PAL]
IC1334	8-759-030-16	s	IC MC34182M
IC1335	8-759-926-15	s	IC SN74HC151ANS
IC1336	8-759-907-81	s	IC SN74LS221NS
IC1337	8-759-175-65	s	IC CXD8821Q
IC1338	8-759-262-03	s	IC MC14577CF
IC1339	8-759-082-61	s	IC TC4W53FU
IC1340	8-759-014-29	s	IC MC34184M
IC1341	8-759-234-77	s	IC TC4S66F
IC1342	8-759-234-77	s	IC TC4S66F
IC1343	8-759-174-16	s	IC TC74VHC244F
IC1344	8-759-186-77	s	IC TC74VHC541F
IC1345	8-759-186-63	s	IC TC74VHC245F
IC1346	8-759-186-63	s	IC TC74VHC245F
IC1348	8-759-272-21	s	IC TC74VHCT541F
IC1349	8-759-272-21	s	IC TC74VHCT541F
IC1600	8-759-348-81	s	IC SM5843AS1-E2
IC1601	8-759-348-81	s	IC SM5843AS1-E2
IC1602	8-759-269-16	s	IC SN74HCT32ANS
IC1603	8-759-348-81	s	IC SM5843AS1-E2
IC1604	8-759-348-81	s	IC SM5843AS1-E2
IC1605	8-759-079-74	s	IC TC74VHC157FS(EL)
IC2500	8-759-079-97	s	IC TC74VHC374FS(EL)
IC2501	8-759-079-97	s	IC TC74VHC374FS(EL)
IC2502	8-759-348-79	s	IC TE7751
IC3000	8-759-079-74	s	IC TC74VHC157FS(EL)
IC3001	8-759-079-60	s	IC TC74VHC32FS(EL)
IC3002	8-759-079-60	s	IC TC74VHC32FS(EL)
IC5900	8-759-079-80	s	IC TC74VHC175FS(EL)
L1	1-409-579-11	s	COIL, CHOKE 8.2uH
L2	1-409-579-11	s	COIL, CHOKE 8.2uH
L3	1-409-579-11	s	COIL, CHOKE 8.2uH
L4	1-409-579-11	s	COIL, CHOKE 8.2uH
L5	1-424-667-11	s	COIL, CHOKE 1uH [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-409-579-11	s	COIL, CHOKE 8.2uH [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
L6	1-409-579-11	s	COIL, CHOKE 8.2uH
L7	1-409-579-11	s	COIL, CHOKE 8.2uH
L10	1-409-579-11	s	COIL, CHOKE 8.2uH
L12	1-424-667-11	s	COIL, CHOKE 1uH [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-409-579-11	s	COIL, CHOKE 8.2uH [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
L13	1-409-579-11	s	COIL, CHOKE 8.2uH
L1300	1-412-138-11	s	INDUCTOR 100uH
L1301	1-412-188-11	s	INDUCTOR 22uH
L1302	1-410-388-31	s	INDUCTOR, CHIP 39uH [for PAL]
	1-410-391-11	s	INDUCTOR, CHIP 68uH [for NTSC]

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Ref. No. or Q'ty	Part No.	SP	Description
L1303	1-412-191-11	s	INDUCTOR 47uH
L1304	1-412-191-11	s	INDUCTOR 47uH
L1305	1-412-191-11	s	INDUCTOR 47uH [for PAL]
L1306	1-412-191-11	s	INDUCTOR 47uH [for PAL]
Q1100	8-729-140-47	s	TRANSISTOR 2SC3735-B34
Q1101	8-729-140-47	s	TRANSISTOR 2SC3735-B34
Q1102	8-729-140-47	s	TRANSISTOR 2SC3735-B34
Q1103	8-729-824-34	s	TRANSISTOR 2SJ187
Q1104	8-729-140-47	s	TRANSISTOR 2SC3735-B34
Q1300	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1301	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1302	8-729-143-07	s	TRANSISTOR 2SA1610-YY33
Q1303	8-729-143-07	s	TRANSISTOR 2SA1610-YY33
Q1304	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1305	8-729-117-32	s	TRANSISTOR 2SC4177
Q1306	8-729-117-32	s	TRANSISTOR 2SC4177
Q1307	8-729-117-32	s	TRANSISTOR 2SC4177
Q1308	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1309	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1310	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1311	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q1312	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1313	8-729-117-32	s	TRANSISTOR 2SC4177
R1	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R2	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R3	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R4	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R5	1-216-864-11	s	METAL, CHIP 0 [for PAL]
R6	1-216-864-11	s	METAL, CHIP 0
R7	1-216-864-11	s	METAL, CHIP 0
R10	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R11	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R12	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R16	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R17	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R18	1-216-864-11	s	METAL, CHIP 0
R19	1-216-864-11	s	METAL, CHIP 0
R20	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R21	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R22	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R23	1-216-864-11	s	METAL, CHIP 0
R26	1-216-864-11	s	METAL, CHIP 0
R27	1-216-864-11	s	METAL, CHIP 0
R31	1-216-864-11	s	METAL, CHIP 0
R32	1-216-864-11	s	METAL, CHIP 0
R33	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R102	1-216-864-11	s	METAL, CHIP 0
R103	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R104	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R105	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R107	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R110	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R111	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R112	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R113	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R114	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R118	1-216-864-11	s	METAL, CHIP 0
R120	1-216-864-11	s	METAL, CHIP 0

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Ref. No. or Q'ty	Part No.	SP	Description
R121	1-216-864-11	s	METAL, CHIP 0
R122	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R123	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R124	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R125	1-216-864-11	s	METAL, CHIP 0
R126	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R127	1-216-864-11	s	METAL, CHIP 0
R128	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R129	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R130	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R131	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R132	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R133	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R134	1-216-864-11	s	METAL, CHIP 0
R135	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R138	1-216-864-11	s	METAL, CHIP 0
R139	1-216-864-11	s	METAL, CHIP 0
R140	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R142	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R143	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R144	1-216-805-11	s	METAL, CHIP 47 5% 1/16W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R145	1-216-805-11	s	METAL, CHIP 47 5% 1/16W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R146	1-216-805-11	s	METAL, CHIP 47 5% 1/16W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R147	1-216-805-11	s	METAL, CHIP 47 5% 1/16W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R149	1-216-864-11	s	METAL, CHIP 0 [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R200	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R201	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R202	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R203	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R204	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W [for NTSC]
R206	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W [for PAL]
R207	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R208	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R209	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R210	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W [for PAL]
R211	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R213	1-216-864-11	s	METAL, CHIP 0
R214	1-216-805-11	s	METAL, CHIP 47 5% 1/16W [for PAL]
R215	1-216-805-11	s	METAL, CHIP 47 5% 1/16W [for NTSC]
R216	1-216-805-11	s	METAL, CHIP 47 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R217	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R218	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R219	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R220	1-216-853-11	s	METAL, CHIP 470K 5% 1/16W [for PAL]
R221	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R222	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R223	1-216-864-11	s	METAL, CHIP 0
R224	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R225	1-216-864-11	s	METAL, CHIP 0
R226	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R227	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R228	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R229	1-216-864-11	s	METAL, CHIP 0
R230	1-216-864-11	s	METAL, CHIP 0
R231	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R232	1-216-864-11	s	METAL, CHIP 0
R233	1-216-864-11	s	METAL, CHIP 0
R234	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R235	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R236	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R237	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R290	1-216-864-11	s	METAL, CHIP 0
R292	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R296	1-216-864-11	s	METAL, CHIP 0
R300	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R301	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R302	1-216-864-11	s	METAL, CHIP 0
R304	1-216-864-11	s	METAL, CHIP 0
R305	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R307	1-216-864-11	s	METAL, CHIP 0
R308	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R309	1-216-864-11	s	METAL, CHIP 0
R310	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R311	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R312	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R314	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R315	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R316	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R317	1-216-864-11	s	METAL, CHIP 0
R318	1-216-864-11	s	METAL, CHIP 0
R319-325	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R326	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R327	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R328	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R329	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R330	1-216-864-11	s	METAL, CHIP 0
R331	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R333	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R334	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R335	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R336	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R337	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R338	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R339	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R340	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R341	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R342	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R343-348	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R349	1-216-817-11	s	METAL, CHIP 470 5% 1/16W

Ref. No. or Q'ty	Part No.	SP	Description
R350	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R351	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R352	1-216-864-11	s	METAL, CHIP 0
R354	1-216-805-11	s	METAL, CHIP 47 5% 1/16W [for PAL]
R355	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R356	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R357-363	1-216-864-11	s	METAL, CHIP 0
R364	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R375	1-216-864-11	s	METAL, CHIP 0
R377-382	1-216-864-11	s	METAL, CHIP 0
R383	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R384	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R385	1-216-864-11	s	METAL, CHIP 0
R390	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R391	1-216-864-11	s	METAL, CHIP 0
R392	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R395	1-216-864-11	s	METAL, CHIP 0
R396	1-216-805-11	s	METAL, CHIP 47 5% 1/16W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R397	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R398	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R502	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R503	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R504	1-216-864-11	s	METAL, CHIP 0
R505	1-216-864-11	s	METAL, CHIP 0
R506	1-216-864-11	s	METAL, CHIP 0
R507	1-216-864-11	s	METAL, CHIP 0 [for NTSC]
R508	1-216-864-11	s	METAL, CHIP 0
R509	1-216-864-11	s	METAL, CHIP 0
R510	1-216-864-11	s	METAL, CHIP 0
R513	1-216-864-11	s	METAL, CHIP 0
R514	1-216-864-11	s	METAL, CHIP 0
R515	1-216-864-11	s	METAL, CHIP 0
R516	1-216-864-11	s	METAL, CHIP 0
R517	1-216-864-11	s	METAL, CHIP 0 [for PAL]
R518	1-216-864-11	s	METAL, CHIP 0
R609	1-216-864-11	s	METAL, CHIP 0
R611	1-216-864-11	s	METAL, CHIP 0
R613	1-216-864-11	s	METAL, CHIP 0
R700	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R701-712	1-216-864-11	s	METAL, CHIP 0
R713	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R714	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R715	1-216-864-11	s	METAL, CHIP 0
R716	1-216-864-11	s	METAL, CHIP 0
R719	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R720-730	1-216-864-11	s	METAL, CHIP 0
R800	1-216-864-11	s	METAL, CHIP 0
R801	1-216-864-11	s	METAL, CHIP 0
R802	1-216-864-11	s	METAL, CHIP 0
R809-815	1-216-864-11	s	METAL, CHIP 0

Ref. No. or Q'ty	Part No.	SP	Description
R816	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R817	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R818	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R1000-1006	1-216-864-11	s	METAL, CHIP 0
R1007	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1008-1012	1-216-864-11	s	METAL, CHIP 0
R1014	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1015	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R1016	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1019	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R1020	1-216-864-11	s	METAL, CHIP 0
R1022	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1023	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1024	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R1025	1-216-864-11	s	METAL, CHIP 0
R1026	1-216-864-11	s	METAL, CHIP 0
R1027	1-216-864-11	s	METAL, CHIP 0
R1028	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R1029	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R1030	1-216-864-11	s	METAL, CHIP 0
R1031	1-216-864-11	s	METAL, CHIP 0 [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R1032	1-216-864-11	s	METAL, CHIP 0 [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R1033	1-216-864-11	s	METAL, CHIP 0 [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R1034	1-216-864-11	s	METAL, CHIP 0 [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R1100	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1101	1-218-707-11	s	METAL, CHIP 4.3K 0.5% 1/16W
R1102	1-216-864-11	s	METAL, CHIP 0
R1103	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1104	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1105	1-216-864-11	s	METAL, CHIP 0
R1106	1-216-824-11	s	METAL, CHIP 1.8K 5% 1/16W
R1107	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1108	1-216-864-11	s	METAL, CHIP 0
R1109	1-216-864-11	s	METAL, CHIP 0
R1111	1-216-864-11	s	METAL, CHIP 0
R1112	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R1113	1-216-864-11	s	METAL, CHIP 0 [for NTSC]
R1118	1-216-864-11	s	METAL, CHIP 0
R1119	1-216-864-11	s	METAL, CHIP 0
R1120	1-216-864-11	s	METAL, CHIP 0
R1121	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1122	1-216-864-11	s	METAL, CHIP 0
R1123	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R1124	1-216-864-11	s	METAL, CHIP 0

Ref. No. or Q'ty	Part No.	SP	Description
R1125	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1126	1-218-864-11	s	METAL, CHIP 5.1K 0.5% 1/16W
R1127	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R1128	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1129	1-218-864-11	s	METAL, CHIP 5.1K 0.5% 1/16W
R1130	1-216-824-11	s	METAL, CHIP 1.8K 5% 1/16W
R1131	1-216-864-11	s	METAL, CHIP 0
R1133	1-216-864-11	s	METAL, CHIP 0
R1134	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W
R1135	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R1136	1-216-864-11	s	METAL, CHIP 0
R1137	1-216-864-11	s	METAL, CHIP 0
R1140	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1141	1-216-864-11	s	METAL, CHIP 0
R1145	1-216-864-11	s	METAL, CHIP 0
R1146	1-216-864-11	s	METAL, CHIP 0
R1147	1-218-867-11	s	METAL, CHIP 6.8K 0.5% 1/16W
R1148	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1149	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1150	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1151	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1152	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R1153	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R1154-1158	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R1159	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1160	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R1161	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R1162	1-218-837-11	s	METAL, CHIP 390 0.5% 1/16W
R1163	1-218-837-11	s	METAL, CHIP 390 0.5% 1/16W
R1164	1-218-837-11	s	METAL, CHIP 390 0.5% 1/16W
R1165	1-218-837-11	s	METAL, CHIP 390 0.5% 1/16W
R1168	1-218-838-11	s	METAL, CHIP 430 0.5% 1/16W
R1169	1-218-838-11	s	METAL, CHIP 430 0.5% 1/16W
R1170	1-218-838-11	s	METAL, CHIP 430 0.5% 1/16W
R1171	1-218-838-11	s	METAL, CHIP 430 0.5% 1/16W
R1172	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W
R1173	1-216-832-11	s	METAL, CHIP 8.2K 5% 1/16W
R1174	1-216-813-11	s	METAL, CHIP 220 5% 1/16W
R1175	1-216-813-11	s	METAL, CHIP 220 5% 1/16W
R1176	1-216-824-11	s	METAL, CHIP 1.8K 5% 1/16W
R1177	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W
R1178	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W
R1179	1-216-813-11	s	METAL, CHIP 220 5% 1/16W
R1180	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R1181	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R1182	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R1183	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R1184	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R1185	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R1186	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R1187	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R1188	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R1189	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R1190	1-218-868-11	s	METAL, CHIP 7.5K 0.5% 1/16W
R1191	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R1192	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R1193	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R1194-1199	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W

Ref. No. or Q'ty	Part No.	SP	Description
R1200	1-218-705-11	s	METAL, CHIP 3.6K 0.5% 1/16W
R1201	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R1202	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R1203	1-218-866-11	s	METAL, CHIP 6.2K 0.5% 1/16W
R1204	1-218-866-11	s	METAL, CHIP 6.2K 0.5% 1/16W
R1205	1-218-714-11	s	METAL, CHIP 8.2K 0.5% 1/16W
R1206	1-218-866-11	s	METAL, CHIP 6.2K 0.5% 1/16W
R1207	1-218-866-11	s	METAL, CHIP 6.2K 0.5% 1/16W
R1208	1-218-714-11	s	METAL, CHIP 8.2K 0.5% 1/16W
R1209-1216	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R1217	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R1218	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R1219	1-216-864-11	s	METAL, CHIP 0
R1220	1-216-864-11	s	METAL, CHIP 0
R1221	1-216-813-11	s	METAL, CHIP 220 5% 1/16W
R1222	1-216-864-11	s	METAL, CHIP 0
R1223	1-216-864-11	s	METAL, CHIP 0
R1224	1-216-824-11	s	METAL, CHIP 1.8K 5% 1/16W
R1225	1-216-832-11	s	METAL, CHIP 8.2K 5% 1/16W
R1230	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1270-1277	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R1300	1-216-864-11	s	METAL, CHIP 0 [for NTSC]
R1301	1-216-864-11	s	METAL, CHIP 0 [for PAL]
R1302	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R1303	1-216-864-11	s	METAL, CHIP 0
R1304	1-216-864-11	s	METAL, CHIP 0 [for PAL]
R1305	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R1306	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1307	1-218-845-11	s	METAL, CHIP 820 0.5% 1/16W
R1308	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W [for PAL]
R1309	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R1310	1-216-864-11	s	METAL, CHIP 0
R1311	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W [for PAL]
R1312	1-216-840-11	s	METAL, CHIP 39K 5% 1/16W [for PAL]
R1313	1-216-834-11	s	METAL, CHIP 12K 5% 1/16W [for PAL]
R1314	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R1315	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W [for PAL]
R1316	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R1317	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R1318	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W [for NTSC]
R1319	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W [for PAL]
R1320	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W [for NTSC]
R1321	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W [for PAL]
R1322	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W [for PAL]
R1323	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R1324	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W [for PAL]
R1325	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1326	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W [for PAL]
R1327	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W [for PAL]
R1329	1-216-863-11	s	METAL, CHIP 3.3M 5% 1/16W
R1330	1-216-863-11	s	METAL, CHIP 3.3M 5% 1/16W
R1331	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W [for PAL]
R1332	1-216-843-11	s	METAL, CHIP 68K 5% 1/16W
R1333	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R1334	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W [for PAL]

Ref. No. or Q'ty	Part No.	SP	Description
R1335	1-216-838-11	s	METAL, CHIP 27K 5% 1/16W
R1336	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W [for PAL]
R1337	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R1338	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W [for PAL]
R1339	1-216-864-11	s	METAL, CHIP 0 [for PAL]
R1340	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1341	1-216-864-11	s	METAL, CHIP 0 [for NTSC]
R1342	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R1343	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R1344	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R1345	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R1346	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R1347	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R1348	1-216-813-11	s	METAL, CHIP 220 5% 1/16W
R1349	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R1350	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R1351	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R1352	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1353	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R1354	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1355	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R1356	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R1357	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R1358	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W [for PAL]
R1359	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W [for PAL]
R1360	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R1361	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W [for PAL]
R1362	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W [for PAL]
R1363	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R1364	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R1365	1-216-837-11	s	METAL, CHIP 22K 5% 1/16W
R1366	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R1368	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1369	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1370	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1371	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R1372	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R1373	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1374	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R1376	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1378	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R1379	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W [for NTSC]
	1-216-837-11	s	METAL, CHIP 22K 5% 1/16W [for PAL]
R1380	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R1382	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1384	1-216-864-11	s	METAL, CHIP 0
R1385	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W [for NTSC]
	1-216-837-11	s	METAL, CHIP 22K 5% 1/16W [for PAL]
R1386	1-216-844-11	s	METAL, CHIP 82K 5% 1/16W [for PAL]
R1387	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W [for NTSC]
	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W [for PAL]
R1388	1-218-699-11	s	METAL, CHIP 2K 0.5% 1/16W [for NTSC]
	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W [for PAL]
R1389	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W

Ref. No. or Q'ty	Part No.	SP	Description
R1390	1-216-839-11	s	METAL, CHIP 33K 5% 1/16W [for NTSC]
	1-216-837-11	s	METAL, CHIP 22K 5% 1/16W [for PAL]
R1391	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1392	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1393	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R1394	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1395	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1396	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1397	1-216-839-11	s	METAL, CHIP 33K 5% 1/16W
R1398	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1399	1-216-839-11	s	METAL, CHIP 33K 5% 1/16W
R1400	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1401	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R1402	1-218-706-11	s	METAL, CHIP 3.9K 0.5% 1/16W
R1403	1-218-867-11	s	METAL, CHIP 6.8K 0.5% 1/16W
R1404	1-218-704-11	s	METAL, CHIP 3.3K 0.5% 1/16W
R1405	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W
R1406	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W
R1407	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R1408	1-218-881-11	s	METAL, CHIP 27K 0.5% 1/16W
R1409	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1410	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1411	1-218-739-11	s	METAL, CHIP 91K 0.5% 1/16W [for NTSC]
R1412	1-216-864-11	s	METAL, CHIP 0 [for NTSC]
R1413	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1414	1-218-738-11	s	METAL, CHIP 82K 0.5% 1/16W [for NTSC]
	1-218-730-11	s	METAL, CHIP 39K 0.5% 1/16W [for PAL]
R1415	1-216-828-11	s	METAL, CHIP 3.9K 5% 1/16W [for PAL]
R1416	1-216-864-11	s	METAL, CHIP 0 [for PAL]
R1417	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W [for PAL]
R1418	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W [for PAL]
R1419	1-216-817-11	s	METAL, CHIP 470 5% 1/16W [for PAL]
R1420	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R1421	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R1422	1-216-817-11	s	METAL, CHIP 470 5% 1/16W [for PAL]
R1423	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W [for PAL]
R1424	1-216-838-11	s	METAL, CHIP 27K 5% 1/16W [for PAL]
R1425	1-216-864-11	s	METAL, CHIP 0 [for PAL]
R1426	1-216-864-11	s	METAL, CHIP 0 [for NTSC]
R1427	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R1428	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1430	1-218-296-11	s	METAL, CHIP 75K 5% 1/16W [for NTSC]
	1-218-738-11	s	METAL, CHIP 82K 0.5% 1/16W [for PAL]
R1431	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R1432	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1433	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1434	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1435	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1436	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R1437	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1438	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R1439	1-218-881-11	s	METAL, CHIP 27K 0.5% 1/16W
R1440	1-218-873-11	s	METAL, CHIP 12K 0.5% 1/16W [for NTSC]
	1-218-868-11	s	METAL, CHIP 7.5K 0.5% 1/16W [for PAL]

Ref. No. or Q'ty	Part No.	SP	Description
R1441	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R1442	1-218-874-11	s	METAL, CHIP 13K 0.5% 1/16W
R1443	1-218-867-11	s	METAL, CHIP 6.8K 0.5% 1/16W
R1444	1-218-730-11	s	METAL, CHIP 39K 0.5% 1/16W
R1445	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R1446	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R1447	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R1448	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1449	1-216-837-11	s	METAL, CHIP 22K 5% 1/16W
R1450	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R1451	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R1452	1-216-864-11	s	METAL, CHIP 0
R1454	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R1455	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R1456	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R1457	1-216-864-11	s	METAL, CHIP 0
R1458	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R1459	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R1462	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1463	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1464	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1465	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1467-1476	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1477	1-216-805-11	s	METAL, CHIP 47 5% 1/16W [for UC:S/N 10001 and higher] [for J :S/N 10001 and higher] [for SY:S/N 10001 through 10115]
R1478	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1480	1-216-805-11	s	METAL, CHIP 47 5% 1/16W [for SY:S/N 10116 and higher]
R1481-1485	1-216-864-11	s	METAL, CHIP 0
R1486	1-216-864-11	s	METAL, CHIP 0 [for UC:S/N 10001 and higher] [for J :S/N 10001 and higher] [for SY:S/N 10001 through 10115]
R1487	1-216-864-11	s	METAL, CHIP 0
R1488	1-216-864-11	s	METAL, CHIP 0
R1489	1-216-864-11	s	METAL, CHIP 0
R1490	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R1491	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1492	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1493	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1494	1-216-864-11	s	METAL, CHIP 0
R1495	1-216-864-11	s	METAL, CHIP 0
R1496	1-216-834-11	s	METAL, CHIP 12K 5% 1/16W
R1497	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R1498	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1499	1-216-864-11	s	METAL, CHIP 0
R1500	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1501	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1502	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1503	1-216-864-11	s	METAL, CHIP 0
R1505	1-216-864-11	s	METAL, CHIP 0 [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]

Ref. No. or Q'ty	Part No.	SP	Description
R1506	1-216-864-11	s	METAL, CHIP 0
R1507-1511	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1513	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1514	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1515	1-216-805-11	s	METAL, CHIP 47 5% 1/16W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher]
R1516	1-216-805-11	s	METAL, CHIP 47 5% 1/16W [for SY:S/N 10116 and higher]
R1518	1-216-805-11	s	METAL, CHIP 47 5% 1/16W [for SY:S/N 10116 and higher]
R1600	1-216-864-11	s	METAL, CHIP 0
R1601	1-216-864-11	s	METAL, CHIP 0
R1602	1-216-864-11	s	METAL, CHIP 0
R1603	1-216-864-11	s	METAL, CHIP 0
R1605	1-216-864-11	s	METAL, CHIP 0
R1606	1-216-864-11	s	METAL, CHIP 0 [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R1608	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1615	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1616	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1617	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1618	1-216-864-11	s	METAL, CHIP 0 [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R1619	1-216-864-11	s	METAL, CHIP 0 [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R1620	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1623	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1624	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1625	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1628-1633	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R1634	1-216-864-11	s	METAL, CHIP 0
R1635	1-216-864-11	s	METAL, CHIP 0
R1636	1-216-864-11	s	METAL, CHIP 0
R1637	1-216-864-11	s	METAL, CHIP 0
R2500	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R2501	1-216-805-11	s	METAL, CHIP 47 5% 1/16W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R2502	1-216-864-11	s	METAL, CHIP 0
R2503	1-216-864-11	s	METAL, CHIP 0
R2504	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R2505	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R2506	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R2507	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R2508	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R2509	1-216-864-11	s	METAL, CHIP 0
R2510	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R2511	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]

Ref. No. or Q'ty	Part No.	SP	Description
RB1-6	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB7-13	1-239-409-11	s	NETWORK RESISTOR (CHIP) 47
RB14	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB15	1-236-407-11	s	NETWORK RESISTOR 390 [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
RB16	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
RB100	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB101	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB102	1-239-430-11	s	NETWORK RESISTOR (CHIP) 4.7K [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
RB103-107	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB108	1-239-409-11	s	NETWORK RESISTOR (CHIP) 47
RB109	1-239-409-11	s	NETWORK RESISTOR (CHIP) 47 [for UC:S/N 10001 through 10091] [for J :S/N 10001 through 10066] [for SY:S/N 10001 through 10116]
RB110-121	1-239-409-11	s	NETWORK RESISTOR (CHIP) 47
RB122	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0 [for PAL]
RB123	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0 [for PAL]
RB124	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0 [for PAL]
RB125	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0 [for PAL]
RB126-132	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB200-210	1-239-409-11	s	NETWORK RESISTOR (CHIP) 47
RB300	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0
RB301	1-236-908-11	s	NETWORK RESISTOR (CHIP) 10K
RB302	1-236-908-11	s	NETWORK RESISTOR (CHIP) 10K
RB303	1-236-908-11	s	NETWORK RESISTOR (CHIP) 10K [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
RB304	1-236-908-11	s	NETWORK RESISTOR (CHIP) 10K [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
RB500	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB501	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB505-510	1-239-409-11	s	NETWORK RESISTOR (CHIP) 47
RB600	1-239-430-11	s	NETWORK RESISTOR (CHIP) 4.7K
RB700	1-239-409-11	s	NETWORK RESISTOR (CHIP) 47
RB701	1-239-409-11	s	NETWORK RESISTOR (CHIP) 47
RB702	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0
RB703	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB704	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB705	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K

Ref. No. or Q'ty	Part No.	SP	Description
RB706	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0
RB707	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0
RB800	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0
RB802	1-239-409-11	s	NETWORK RESISTOR (CHIP) 47
RB804	1-239-409-11	s	NETWORK RESISTOR (CHIP) 47
RB805	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB806	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB807	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB808	1-239-409-11	s	NETWORK RESISTOR (CHIP) 47
RB809	1-239-409-11	s	NETWORK RESISTOR (CHIP) 47
RB810	1-239-409-11	s	NETWORK RESISTOR (CHIP) 47
RB811	1-239-409-11	s	NETWORK RESISTOR (CHIP) 47
RB813-817	1-239-409-11	s	NETWORK RESISTOR (CHIP) 47
RB818	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB819	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0
RB820	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0
RB821	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0
RB822	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0
RB900-914	1-239-428-11	s	NETWORK RESISTOR (CHIP) 3.3K
RB1000	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB1001	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB1003	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB1004	1-239-409-11	s	NETWORK RESISTOR (CHIP) 47
RB1100	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0
RB1101	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0
RB1102	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0
RB1103	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB1104	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB1105	1-239-711-11	s	NETWORK RESISTOR (CHIP) 0
RB1200-1207	1-239-428-11	s	NETWORK RESISTOR (CHIP) 3.3K
RB2500	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB2501-2518	1-239-409-11	s	NETWORK RESISTOR (CHIP) 47
RB2519	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB2520	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K

DUS-339 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8272-757-A	o	MOUNTED CIRCUIT BOARD, DUS-339
CN432	1-566-759-11	o	CONNECTOR 4P, MALE
Q1	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q2	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q3	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q4	8-729-209-07	s	TRANSISTOR 2SC4213-B
R1	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R2	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R3	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R4	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R5	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R6	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R7	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R8	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W

EQ-54 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8276-922-A	o	MOUNTED CIRCUIT BOARD, EQ-54
1pc	3-691-503-02	o	CASE,SHIELD LA
C100	1-162-921-11	s	CERAMIC, CHIP 33PF 5% 50V
C101	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C102	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C104	1-162-910-11	s	CERAMIC, CHIP 5PF 50V [for UC:S/N 10079 and higher] [for J :S/N 10061 and higher] [for SY:S/N 10111 and higher]
	1-162-915-11	s	CERAMIC, CHIP 10PF 50V [for UC:S/N 10001 through 10078] [for J :S/N 10001 through 10060] [for SY:S/N 10001 through 10110]
C105	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C106	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C108	1-162-910-11	s	CERAMIC, CHIP 5PF 50V [for UC:S/N 10079 and higher] [for J :S/N 10061 and higher] [for SY:S/N 10111 and higher]
	1-162-915-11	s	CERAMIC, CHIP 10PF 50V [for UC:S/N 10001 through 10078] [for J :S/N 10001 through 10060] [for SY:S/N 10001 through 10110]
C109	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C110	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C111	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C112	1-162-922-11	s	CERAMIC, CHIP 39PF 5% 50V
C113	1-162-967-11	s	CERAMIC, CHIP 0.0033uF 10% 50V
C114	1-162-910-11	s	CERAMIC, CHIP 5PF 50V
C115	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C116	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C117	1-164-505-11	s	CERAMIC 2.2uF 16V
C118	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C119	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C120	1-164-505-11	s	CERAMIC 2.2uF 16V
C121-126	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C127	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C128	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C129	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C131	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C132	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C133	1-164-505-11	s	CERAMIC 2.2uF 16V
C134	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C135	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C136	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C138	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C139	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C140	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C141	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C142	1-162-924-11	s	CERAMIC 56PF 5% 50V
C143	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C144	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C145	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C146	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C147	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C148	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C149	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C150	1-135-145-11	s	TANTALUM, CHIP 0.47uF 10% 35V
C151-156	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C157	1-162-969-11	s	CERAMIC, CHIP 0.0068uF 10% 25V

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(EQ-54 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C158	1-162-918-11	s	CERAMIC, CHIP 18PF 5% 50V
C200	1-162-921-11	s	CERAMIC, CHIP 33PF 5% 50V
C201	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C202	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C204	1-162-910-11	s	CERAMIC, CHIP 5PF 50V
			[for UC:S/N 10079 and higher]
			[for J :S/N 10061 and higher]
			[for SY:S/N 10111 and higher]
	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
			[for UC:S/N 10001 through 10078]
			[for J :S/N 10001 through 10060]
			[for SY:S/N 10001 through 10110]
C205	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C206	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C208	1-162-910-11	s	CERAMIC, CHIP 5PF 50V
			[for UC:S/N 10079 and higher]
			[for J :S/N 10061 and higher]
			[for SY:S/N 10111 and higher]
	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
			[for UC:S/N 10001 through 10078]
			[for J :S/N 10001 through 10060]
			[for SY:S/N 10001 through 10110]
C209	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C210	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C211	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C212	1-162-922-11	s	CERAMIC, CHIP 39PF 5% 50V
C213	1-162-967-11	s	CERAMIC, CHIP 0.0033uF 10% 50V
C214	1-162-910-11	s	CERAMIC, CHIP 5PF 50V
C215	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C216	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C217	1-164-505-11	s	CERAMIC 2.2uF 16V
C218	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C219	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C220	1-164-505-11	s	CERAMIC 2.2uF 16V
C221-226	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C227	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C228	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C229	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C231	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C232	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C233	1-164-505-11	s	CERAMIC 2.2uF 16V
C234	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C235	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C236	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C238	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C239	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C240	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C241	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C242	1-162-924-11	s	CERAMIC 56PF 5% 50V
C243	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C244	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C245	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C246	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C247	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C248	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C249	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C250	1-135-145-11	s	TANTALUM, CHIP 0.47uF 10% 35V
C251	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C254	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C255	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C257	1-162-969-11	s	CERAMIC, CHIP 0.0068uF 10% 25V

(EQ-54 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C258	1-162-918-11	s	CERAMIC, CHIP 18PF 5% 50V
C300	1-162-921-11	s	CERAMIC, CHIP 33PF 5% 50V
C301	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C302	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C304	1-162-910-11	s	CERAMIC, CHIP 5PF 50V
			[for UC:S/N 10079 and higher]
			[for J :S/N 10061 and higher]
			[for SY:S/N 10111 and higher]
	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
			[for UC:S/N 10001 through 10078]
			[for J :S/N 10001 through 10060]
			[for SY:S/N 10001 through 10110]
C305	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C306	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C308	1-162-910-11	s	CERAMIC, CHIP 5PF 50V
			[for UC:S/N 10079 and higher]
			[for J :S/N 10061 and higher]
			[for SY:S/N 10111 and higher]
	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
			[for UC:S/N 10001 through 10078]
			[for J :S/N 10001 through 10060]
			[for SY:S/N 10001 through 10110]
C309	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C310	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C311	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C312	1-162-922-11	s	CERAMIC, CHIP 39PF 5% 50V
C313	1-162-967-11	s	CERAMIC, CHIP 0.0033uF 10% 50V
C314	1-162-910-11	s	CERAMIC, CHIP 5PF 50V
C315	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C316	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C317	1-164-505-11	s	CERAMIC 2.2uF 16V
C318	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C319	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C320	1-164-505-11	s	CERAMIC 2.2uF 16V
C321-326	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C327	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C328	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C329	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C331	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C332	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C333	1-164-505-11	s	CERAMIC 2.2uF 16V
C334	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C335	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C336	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C338	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C339	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C340	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C341	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C342	1-162-924-11	s	CERAMIC 56PF 5% 50V
C343	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C344	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C345	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C346	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C347	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C348	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C349	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C350	1-135-145-11	s	TANTALUM, CHIP 0.47uF 10% 35V
C351-356	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C357	1-162-969-11	s	CERAMIC, CHIP 0.0068uF 10% 25V
C358	1-162-918-11	s	CERAMIC, CHIP 18PF 5% 50V
C400	1-162-921-11	s	CERAMIC, CHIP 33PF 5% 50V

(EQ-54 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C401	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C402	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C404	1-162-910-11	s	CERAMIC, CHIP 5PF 50V [for UC:S/N 10079 and higher] [for J :S/N 10061 and higher] [for SY:S/N 10111 and higher]
	1-162-915-11	s	CERAMIC, CHIP 10PF 50V [for UC:S/N 10001 through 10078] [for J :S/N 10001 through 10060] [for SY:S/N 10001 through 10110]
C405	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C406	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C408	1-162-910-11	s	CERAMIC, CHIP 5PF 50V [for UC:S/N 10079 and higher] [for J :S/N 10061 and higher] [for SY:S/N 10111 and higher]
	1-162-915-11	s	CERAMIC, CHIP 10PF 50V [for UC:S/N 10001 through 10078] [for J :S/N 10001 through 10060] [for SY:S/N 10001 through 10110]
C409	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C410	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C411	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C412	1-162-922-11	s	CERAMIC, CHIP 39PF 5% 50V
C413	1-162-967-11	s	CERAMIC, CHIP 0.0033uF 10% 50V
C414	1-162-910-11	s	CERAMIC, CHIP 5PF 50V
C415	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C416	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C417	1-164-505-11	s	CERAMIC 2.2uF 16V
C418	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C419	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C420	1-164-505-11	s	CERAMIC 2.2uF 16V
C421-426	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C427	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C428	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C429	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C431	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C432	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C433	1-164-505-11	s	CERAMIC 2.2uF 16V
C434	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C435	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C436	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C438	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C439	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C440	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C441	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C442	1-162-924-11	s	CERAMIC 56PF 5% 50V
C443	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C444	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C445	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C446	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C447	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C448	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C449	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C450	1-135-145-11	s	TANTALUM, CHIP 0.47uF 10% 35V
C451	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C452	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C453	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C457	1-162-969-11	s	CERAMIC, CHIP 0.0068uF 10% 25V
C458	1-162-918-11	s	CERAMIC, CHIP 18PF 5% 50V

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Ref. No. or Q'ty	Part No.	SP	Description
C500	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C501	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C504	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C520	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C521	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C530	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C531	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C600	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C601	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C604	1-135-215-21	s	TANTALUM, CHIP 6.8uF 10% 16V
C620	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C621	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C630	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C631	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C700	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C701	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C702	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C710-715	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C800	1-135-145-11	s	TANTALUM, CHIP 0.47uF 10% 35V
C801	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C802	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C803	1-135-201-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C804	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C805	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C806	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C807	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C808	1-135-145-11	s	TANTALUM, CHIP 0.47uF 10% 35V
C809	1-135-070-00	s	TANTALUM, CHIP 0.1uF 10% 35V
C810	1-164-315-11	s	CERAMIC, CHIP 470PF 5% 50V
C811	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C812	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C813	1-104-546-11	s	FILM, CHIP 0.0039uF 5% 16V
C814	1-164-315-11	s	CERAMIC, CHIP 470PF 5% 50V
C815	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C816	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C817	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C818	1-165-176-11	s	CERAMIC 0.047uF 10% 16V
C819	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C820	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C821	1-135-201-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C822	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V
C823	1-162-959-11	s	CERAMIC, CHIP 330PF 5% 50V
C824	1-163-139-00	s	CERAMIC, CHIP 820PF 5% 50V
C825	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C826	1-109-899-11	s	CERAMIC, CHIP 330uF 5% 200V
C827	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C828	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C829	1-135-164-21	s	TANTALUM, CHIP 22uF 10% 16V
C830	1-135-201-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C831	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C832	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C833	1-109-900-11	s	CERAMIC, CHIP 470PF 5% 200V
C834	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C835	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C836	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V
C837	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C838	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C839	1-164-217-11	s	CERAMIC, CHIP 150PF 5% 50V
C840	1-104-551-11	s	FILM, CHIP 0.01uF 5% 16V

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Ref. No. or Q'ty	Part No.	SP	Description
C841	1-135-202-21	s	TANTALUM, CHIP 22uF 10% 4V
C842	1-135-145-11	s	TANTALUM, CHIP 0.47uF 10% 35V
C845	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C846	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V
C847	1-162-959-11	s	CERAMIC, CHIP 330PF 5% 50V
C848	1-135-076-21	s	TANTALUM, CHIP 1uF 10% 35V
C900	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C901	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C902	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C905	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C906	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C907	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C908	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C909	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C910	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
CN301	1-564-005-11	o	CONNECTOR 6P, MALE
CN302	1-566-759-11	o	CONNECTOR 4P, MALE
CN303	1-506-471-11	s	CONNECTOR 6P, MALE
CN304	1-506-468-11	s	CONNECTOR 3P, MALE
CN906	1-774-269-11	s	CONNECTOR, BOARD TO BOARD 30P
CN907	1-774-269-11	s	CONNECTOR, BOARD TO BOARD 30P
CT800	1-426-884-11	s	TRANSFORMER, BIAS OSCILLATION
CV100	1-141-327-11	s	CAP, VAR, TRIMMER, CHIP 10PF
CV200	1-141-327-11	s	CAP, VAR, TRIMMER, CHIP 10PF
CV300	1-141-327-11	s	CAP, VAR, TRIMMER, CHIP 10PF
CV400	1-141-327-11	s	CAP, VAR, TRIMMER, CHIP 10PF
CV800	1-141-365-11	s	CAP, TRIMMER 100PF
D100	8-719-029-64	s	DIODE RD4.7UH-T1
D101	8-719-800-76	s	DIODE 1SS226
D102	8-719-029-61	s	DIODE RD3.6UH-T1
D200	8-719-029-64	s	DIODE RD4.7UH-T1
D201	8-719-800-76	s	DIODE 1SS226
D202	8-719-029-61	s	DIODE RD3.6UH-T1
D300	8-719-029-64	s	DIODE RD4.7UH-T1
D301	8-719-800-76	s	DIODE 1SS226
D302	8-719-029-61	s	DIODE RD3.6UH-T1
D400	8-719-029-64	s	DIODE RD4.7UH-T1
D401	8-719-800-76	s	DIODE 1SS226
D402	8-719-029-61	s	DIODE RD3.6UH-T1
D530	8-719-029-62	s	DIODE RD3.9UH-T1
D630	8-719-029-62	s	DIODE RD3.9UH-T1
D800	8-719-941-86	s	DIODE DAN202U
D801	8-719-941-86	s	DIODE DAN202U
IC100	8-759-260-55	s	IC TLC272CPW-E05
IC101	8-752-073-98	s	IC CXA3034Q
IC102	8-759-260-55	s	IC TLC272CPW-E05
IC103	8-752-066-44	s	IC CXA1805Q
IC104	8-759-079-49	s	IC TC74VHC04FS(EL)
IC105	8-752-371-18	s	IC CXD2302Q
IC106	8-759-079-97	s	IC TC74VHC374FS(EL)
IC200	8-759-260-55	s	IC TLC272CPW-E05
IC201	8-752-073-98	s	IC CXA3034Q
IC203	8-752-066-44	s	IC CXA1805Q
IC205	8-752-371-18	s	IC CXD2302Q
IC206	8-759-079-97	s	IC TC74VHC374FS(EL)
IC300	8-759-260-55	s	IC TLC272CPW-E05
IC301	8-752-073-98	s	IC CXA3034Q

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Ref. No. or Q'ty	Part No.	SP	Description
IC302	8-759-260-55	s	IC TLC272CPW-E05
IC303	8-752-066-44	s	IC CXA1805Q
IC304	8-759-079-49	s	IC TC74VHC04FS(EL)
IC305	8-752-371-18	s	IC CXD2302Q
IC306	8-759-079-97	s	IC TC74VHC374FS(EL)
IC400	8-759-260-55	s	IC TLC272CPW-E05
IC401	8-752-073-98	s	IC CXA3034Q
IC403	8-752-066-44	s	IC CXA1805Q
IC405	8-752-371-18	s	IC CXD2302Q
IC406	8-759-079-97	s	IC TC74VHC374FS(EL)
IC500	8-759-173-13	s	IC CXD8815Q
IC501	8-759-635-27	s	IC M62352GP
IC600	8-759-173-13	s	IC CXD8815Q
IC601	8-759-635-27	s	IC M62352GP
IC700	8-759-269-09	s	IC SN74HCT04ANS
IC701	8-759-925-85	s	IC SN74HC32ANS
IC702	8-759-926-67	s	IC SN74HC374ANS
IC705	8-759-926-29	s	IC SN74HC175ANS
IC706	8-759-925-76	s	IC SN74HC08ANS
IC708	8-759-008-50	s	IC MC74HC112F
IC800	8-759-079-49	s	IC TC74VHC04FS(EL)
IC801	8-759-710-28	s	IC NJM4565M-A
IC802	8-759-079-46	s	IC TC74VHC00FS(EL)
IC803	8-759-710-28	s	IC NJM4565M-A
IC804	8-759-710-28	s	IC NJM4565M-A
IC805	8-759-066-61	s	IC TC4053BFS
IC806	8-759-710-28	s	IC NJM4565M-A
L100	1-410-658-31	s	INDUCTOR, CHIP 220uH
L101	1-410-991-11	s	INDUCTOR CHIP 0.68uH
L102	1-410-987-11	s	INDUCTOR CHIP 0.33uH
L200	1-410-658-31	s	INDUCTOR, CHIP 220uH
L201	1-410-991-11	s	INDUCTOR CHIP 0.68uH
L202	1-410-987-11	s	INDUCTOR CHIP 0.33uH
L300	1-410-658-31	s	INDUCTOR, CHIP 220uH
L301	1-410-991-11	s	INDUCTOR CHIP 0.68uH
L302	1-410-987-11	s	INDUCTOR CHIP 0.33uH
L400	1-410-658-31	s	INDUCTOR, CHIP 220uH
L401	1-410-991-11	s	INDUCTOR CHIP 0.68uH
L402	1-410-987-11	s	INDUCTOR CHIP 0.33uH
L800	1-409-579-11	s	COIL, CHOKE 8.2uH
L801	1-409-579-11	s	COIL, CHOKE 8.2uH
L802	1-408-785-21	s	INDUCTOR, CHIP 47uH
L900	1-409-579-11	s	COIL, CHOKE 8.2uH
L901	1-409-579-11	s	COIL, CHOKE 8.2uH
L902	1-409-579-11	s	COIL, CHOKE 8.2uH
LV800	1-410-853-21	s	COIL, VAR 4.5uH
Q100	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q101	8-729-140-47	s	TRANSISTOR 2SC3735-B34
Q110	8-729-027-54	s	TRANSISTOR DTC124XKA-T146
Q200	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q201	8-729-140-47	s	TRANSISTOR 2SC3735-B34
Q210	8-729-027-54	s	TRANSISTOR DTC124XKA-T146
Q300	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q301	8-729-140-47	s	TRANSISTOR 2SC3735-B34
Q310	8-729-027-54	s	TRANSISTOR DTC124XKA-T146
Q400	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q401	8-729-140-47	s	TRANSISTOR 2SC3735-B34

Ref. No. or Q'ty	Part No.	SP	Description
Q410	8-729-027-54	s	TRANSISTOR DTC124XKA-T146
Q500	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q501	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q502	8-729-824-34	s	TRANSISTOR 2SJ187
Q503	8-729-145-14	s	TRANSISTOR 2SK1483
Q504	8-729-905-09	s	TRANSISTOR DTA144WUT106
Q505	8-729-905-15	s	TRANSISTOR DTC144WUT106
Q506	8-729-824-34	s	TRANSISTOR 2SJ187
Q507	8-729-145-14	s	TRANSISTOR 2SK1483
Q508	8-729-824-34	s	TRANSISTOR 2SJ187
Q600	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q601	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q602	8-729-824-34	s	TRANSISTOR 2SJ187
Q603	8-729-145-14	s	TRANSISTOR 2SK1483
Q604	8-729-905-09	s	TRANSISTOR DTA144WUT106
Q605	8-729-905-15	s	TRANSISTOR DTC144WUT106
Q606	8-729-824-34	s	TRANSISTOR 2SJ187
Q607	8-729-145-14	s	TRANSISTOR 2SK1483
Q608	8-729-824-34	s	TRANSISTOR 2SJ187
Q700	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q701	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q702	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q703	8-729-120-53	s	TRANSISTOR 2SJ132-Z
Q704	8-729-118-70	s	TRANSISTOR 2SK739-Z
Q800	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q801	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q802	8-729-105-08	s	TRANSISTOR 2SA1330
Q803	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q804	8-729-824-34	s	TRANSISTOR 2SJ187
Q805	8-729-105-36	s	TRANSISTOR 2SC3360-N15
Q806	8-729-105-36	s	TRANSISTOR 2SC3360-N15
Q807	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q808	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q809	8-729-105-36	s	TRANSISTOR 2SC3360-N15
Q810	8-729-105-36	s	TRANSISTOR 2SC3360-N15
Q811	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q812	8-729-209-07	s	TRANSISTOR 2SC4213-B
R100	1-211-977-11	s	METAL, CHIP 22 0.5% 1/16W
R101	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R102	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R103	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R104	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R106	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R109	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R110	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W
R111	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W
R112	1-218-836-11	s	METAL, CHIP 360 0.5% 1/16W
R113	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R114	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R115	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R116	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R117	1-218-844-11	s	METAL, CHIP 750 0.5% 1/16W
R118	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R119	1-218-836-11	s	METAL, CHIP 360 0.5% 1/16W
R121	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R122	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R123	1-218-856-11	s	METAL, CHIP 2.4K 0.5% 1/16W
R125	1-218-710-11	s	METAL, CHIP 5.6K 0.5% 1/16W

Ref. No. or Q'ty	Part No.	SP	Description
R126	1-218-897-11	s	METAL, CHIP 120K 0.5% 1/16W
R128	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R129	1-218-864-11	s	METAL, CHIP 5.1K 0.5% 1/16W
R130	1-218-881-11	s	METAL, CHIP 27K 0.5% 1/16W
R131	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R132	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R133	1-218-707-11	s	METAL, CHIP 4.3K 0.5% 1/16W
R134	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R135	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R136	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R137	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R138	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R139	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R140	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R141	1-218-660-11	s	METAL, CHIP 47 0.5% 1/16W
R142	1-218-660-11	s	METAL, CHIP 47 0.5% 1/16W
R143	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R144	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R145	1-218-694-11	s	METAL, CHIP 1.2K 0.5% 1/16W
R146	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R147	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R148	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R149	1-218-840-11	s	METAL, CHIP 510 0.5% 1/16W
R150	1-218-883-11	s	METAL, CHIP 33K 0.5% 1/16W
R151	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R152	1-218-836-11	s	METAL, CHIP 360 0.5% 1/16W
R153	1-218-868-11	s	METAL, CHIP 7.5K 0.5% 1/16W
R155	1-211-990-11	s	METAL, CHIP 75 0.5% 1/16W
R157	1-218-838-11	s	METAL, CHIP 430 0.5% 1/16W
R158	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R160	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R161	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R163	1-211-977-11	s	METAL, CHIP 22 0.5% 1/16W
R164	1-218-874-11	s	METAL, CHIP 13K 0.5% 1/16W
R165	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R166	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R167	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R169	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R171	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R200	1-211-977-11	s	METAL, CHIP 22 0.5% 1/16W
R201	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R202	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R203	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R204	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R206	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R209	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R210	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R211	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W
R212	1-218-836-11	s	METAL, CHIP 360 0.5% 1/16W
R213	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R214	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R215	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R216	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R217	1-218-844-11	s	METAL, CHIP 750 0.5% 1/16W
R218	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R219	1-218-836-11	s	METAL, CHIP 360 0.5% 1/16W
R221	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R222	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R223	1-218-856-11	s	METAL, CHIP 2.4K 0.5% 1/16W
R225	1-218-710-11	s	METAL, CHIP 5.6K 0.5% 1/16W
R226	1-218-897-11	s	METAL, CHIP 120K 0.5% 1/16W
R228	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R229	1-218-864-11	s	METAL, CHIP 5.1K 0.5% 1/16W
R230	1-218-881-11	s	METAL, CHIP 27K 0.5% 1/16W
R231	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R232	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R233	1-218-707-11	s	METAL, CHIP 4.3K 0.5% 1/16W
R234	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R235	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R236	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R237	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R238	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R239	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R240	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R241	1-218-660-11	s	METAL, CHIP 47 0.5% 1/16W
R242	1-218-660-11	s	METAL, CHIP 47 0.5% 1/16W
R243	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R244	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R245	1-218-694-11	s	METAL, CHIP 1.2K 0.5% 1/16W
R246	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R247	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R248	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R249	1-218-840-11	s	METAL, CHIP 510 0.5% 1/16W
R250	1-218-883-11	s	METAL, CHIP 33K 0.5% 1/16W
R251	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R252	1-218-836-11	s	METAL, CHIP 360 0.5% 1/16W
R253	1-218-868-11	s	METAL, CHIP 7.5K 0.5% 1/16W
R255	1-211-990-11	s	METAL, CHIP 75 0.5% 1/16W
R257	1-218-838-11	s	METAL, CHIP 430 0.5% 1/16W
R258	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R260	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R261	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R263	1-211-977-11	s	METAL, CHIP 22 0.5% 1/16W
R264	1-218-874-11	s	METAL, CHIP 13K 0.5% 1/16W
R265	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R266	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R267	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R269	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]

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Ref. No. or Q'ty	Part No.	SP	Description
R271	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R300	1-211-977-11	s	METAL, CHIP 22 0.5% 1/16W
R301	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R302	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R303	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R304	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R306	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R309	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R310	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W
R311	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W
R312	1-218-836-11	s	METAL, CHIP 360 0.5% 1/16W
R313	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R314	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R315	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R316	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R317	1-218-844-11	s	METAL, CHIP 750 0.5% 1/16W
R318	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R319	1-218-836-11	s	METAL, CHIP 360 0.5% 1/16W
R321	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R322	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R323	1-218-856-11	s	METAL, CHIP 2.4K 0.5% 1/16W
R325	1-218-710-11	s	METAL, CHIP 5.6K 0.5% 1/16W
R326	1-218-897-11	s	METAL, CHIP 120K 0.5% 1/16W
R328	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R329	1-218-864-11	s	METAL, CHIP 5.1K 0.5% 1/16W
R330	1-218-881-11	s	METAL, CHIP 27K 0.5% 1/16W
R331	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R332	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R333	1-218-707-11	s	METAL, CHIP 4.3K 0.5% 1/16W
R334	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R335	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R336	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R337	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R338	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R339	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R340	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R341	1-218-660-11	s	METAL, CHIP 47 0.5% 1/16W
R342	1-218-660-11	s	METAL, CHIP 47 0.5% 1/16W
R343	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R344	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R345	1-218-694-11	s	METAL, CHIP 1.2K 0.5% 1/16W
R346	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R347	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R348	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R349	1-218-840-11	s	METAL, CHIP 510 0.5% 1/16W
R350	1-218-883-11	s	METAL, CHIP 33K 0.5% 1/16W
R351	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R352	1-218-836-11	s	METAL, CHIP 360 0.5% 1/16W
R353	1-218-868-11	s	METAL, CHIP 7.5K 0.5% 1/16W
R355	1-211-990-11	s	METAL, CHIP 75 0.5% 1/16W
R357	1-218-838-11	s	METAL, CHIP 430 0.5% 1/16W
R358	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]

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Ref. No. or Q'ty	Part No.	SP	Description
R360	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R361	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R363	1-211-977-11	s	METAL, CHIP 22 0.5% 1/16W
R364	1-218-874-11	s	METAL, CHIP 13K 0.5% 1/16W
R365	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R366	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R367	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R369	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R371	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R400	1-211-977-11	s	METAL, CHIP 22 0.5% 1/16W
R401	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R402	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R403	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R404	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R406	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R409	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R410	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W
R411	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W
R412	1-218-836-11	s	METAL, CHIP 360 0.5% 1/16W
R413	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R414	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R415	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R416	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R417	1-218-844-11	s	METAL, CHIP 750 0.5% 1/16W
R418	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R419	1-218-836-11	s	METAL, CHIP 360 0.5% 1/16W
R421	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R422	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R423	1-218-856-11	s	METAL, CHIP 2.4K 0.5% 1/16W
R425	1-218-710-11	s	METAL, CHIP 5.6K 0.5% 1/16W
R426	1-218-897-11	s	METAL, CHIP 120K 0.5% 1/16W
R428	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R429	1-218-864-11	s	METAL, CHIP 5.1K 0.5% 1/16W
R430	1-218-881-11	s	METAL, CHIP 27K 0.5% 1/16W
R431	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R432	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R433	1-218-707-11	s	METAL, CHIP 4.3K 0.5% 1/16W
R434	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R435	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R436	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R437	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R438	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R439	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R440	1-218-851-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R441	1-218-660-11	s	METAL, CHIP 47 0.5% 1/16W
R442	1-218-660-11	s	METAL, CHIP 47 0.5% 1/16W
R443	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R444	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R445	1-218-694-11	s	METAL, CHIP 1.2K 0.5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R446	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R447	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R448	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R449	1-218-840-11	s	METAL, CHIP 510 0.5% 1/16W
R450	1-218-883-11	s	METAL, CHIP 33K 0.5% 1/16W
R451	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R452	1-218-836-11	s	METAL, CHIP 360 0.5% 1/16W
R453	1-218-868-11	s	METAL, CHIP 7.5K 0.5% 1/16W
R455	1-211-990-11	s	METAL, CHIP 75 0.5% 1/16W
R457	1-218-838-11	s	METAL, CHIP 430 0.5% 1/16W
R458	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R460	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R461	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R463	1-211-977-11	s	METAL, CHIP 22 0.5% 1/16W
R464	1-218-874-11	s	METAL, CHIP 13K 0.5% 1/16W
R465	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R466	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W
R467	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R469	1-211-969-11	s	METAL, CHIP 10 0.5% 1/16W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R471	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R500	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R501	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R502	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R503	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R504	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R505	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R506	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R507	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R508	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R509	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R510	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R511	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R512	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R513	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R520	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R521	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R530	1-218-837-11	s	METAL, CHIP 390 0.5% 1/16W
R531	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R532	1-218-706-11	s	METAL, CHIP 3.9K 0.5% 1/16W
R533	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R534	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R535	1-218-706-11	s	METAL, CHIP 3.9K 0.5% 1/16W
R536	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R537-542	1-218-695-11	s	METAL, CHIP 1.3K 0.5% 1/16W
R543	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R544	1-218-706-11	s	METAL, CHIP 3.9K 0.5% 1/16W
R545	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R546	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R547	1-218-706-11	s	METAL, CHIP 3.9K 0.5% 1/16W
R548	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R549-554	1-218-695-11	s	METAL, CHIP 1.3K 0.5% 1/16W
R600	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R601	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R602	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R603	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R604	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R605	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R606	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R607	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R608	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R609	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R610	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R611	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R612	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R613	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R620	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R621	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R630	1-218-837-11	s	METAL, CHIP 390 0.5% 1/16W
R631	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R632	1-218-706-11	s	METAL, CHIP 3.9K 0.5% 1/16W
R633	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R634	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R635	1-218-706-11	s	METAL, CHIP 3.9K 0.5% 1/16W
R636	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R637-642	1-218-695-11	s	METAL, CHIP 1.3K 0.5% 1/16W
R643	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R644	1-218-706-11	s	METAL, CHIP 3.9K 0.5% 1/16W
R645	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R646	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R647	1-218-706-11	s	METAL, CHIP 3.9K 0.5% 1/16W
R648	1-218-870-11	s	METAL, CHIP 9.1K 0.5% 1/16W
R649-654	1-218-695-11	s	METAL, CHIP 1.3K 0.5% 1/16W
R700	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R701	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R702-707	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R708	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R709	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R710	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R711	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R712	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R713	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R800	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R801	1-216-864-11	s	METAL, CHIP 0
R802	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W

(EQ-54 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R803	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R804	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R805	1-218-748-11	s	METAL, CHIP 220K 0.5% 1/16W
R806	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R807	1-218-748-11	s	METAL, CHIP 220K 0.5% 1/16W
R808	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R809	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R810	1-218-883-11	s	METAL, CHIP 33K 0.5% 1/16W
R811	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R812	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R813	1-218-883-11	s	METAL, CHIP 33K 0.5% 1/16W
R814	1-218-748-11	s	METAL, CHIP 220K 0.5% 1/16W
R815	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R816	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W
R817	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R818	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R819	1-218-881-11	s	METAL, CHIP 27K 0.5% 1/16W
R820	1-218-748-11	s	METAL, CHIP 220K 0.5% 1/16W
R821	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R822	1-218-698-11	s	METAL, CHIP 1.8K 0.5% 1/16W
R823	1-216-117-00	s	METAL, CHIP 680K 5% 1/10W
R824	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R825	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R826	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R827	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R828	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R829	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R830	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R831	1-216-298-00	s	METAL 2.2 5% 1/10W
R832	1-216-298-00	s	METAL 2.2 5% 1/10W
R833	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R834	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R835	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R836	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R837	1-218-714-11	s	METAL, CHIP 8.2K 0.5% 1/16W
R838	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R839	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R840	1-218-750-11	s	METAL, CHIP 270K 0.5% 1/16W
R841	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R842	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R843	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R844	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R845	1-218-833-11	s	METAL, CHIP 270 0.5% 1/16W
R846	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R847	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R848	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R849	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R850	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R852	1-218-708-11	s	METAL, CHIP 4.7K 0.5% 1/16W
R853	1-216-864-11	s	METAL, CHIP 0
RB100-104	1-239-412-11	s	NETWORK RESISTOR (CHIP) 100
RB200-204	1-239-412-11	s	NETWORK RESISTOR (CHIP) 100
RB300-304	1-239-412-11	s	NETWORK RESISTOR (CHIP) 100
RB400-404	1-239-412-11	s	NETWORK RESISTOR (CHIP) 100

(EQ-54 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RB530	1-236-904-11	s	NETWORK RESISTOR (CHIP) 110K [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
	1-239-412-11	s	NETWORK RESISTOR (CHIP) 100 [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
RV100	1-237-033-11	s	RES, ADJ METAL 1K
RV101	1-237-032-11	s	RES, ADJ METAL 500
RV103	1-237-039-11	s	RES, ADJ METAL 100K
RV104	1-237-032-11	s	RES, ADJ METAL 500
RV200	1-237-033-11	s	RES, ADJ METAL 1K
RV201	1-237-032-11	s	RES, ADJ METAL 500
RV203	1-237-039-11	s	RES, ADJ METAL 100K
RV204	1-237-032-11	s	RES, ADJ METAL 500
RV300	1-237-033-11	s	RES, ADJ METAL 1K
RV301	1-237-032-11	s	RES, ADJ METAL 500
RV303	1-237-039-11	s	RES, ADJ METAL 100K
RV304	1-237-032-11	s	RES, ADJ METAL 500
RV400	1-237-033-11	s	RES, ADJ METAL 1K
RV401	1-237-032-11	s	RES, ADJ METAL 500
RV403	1-237-039-11	s	RES, ADJ METAL 100K
RV404	1-237-032-11	s	RES, ADJ METAL 500
RV800	1-237-035-11	s	RES, ADJ METAL 5K
RV801	1-237-038-11	s	RES, ADJ METAL 50K
RV802	1-237-035-11	s	RES, ADJ METAL 5K
RV803	1-237-035-11	s	RES, ADJ METAL 5K
S700	1-570-598-11	s	SWITCH, DIP 4-CKT

FU-63 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8276-938-A	o	MOUNTED CIRCUIT BOARD, FU-63
4pcs	1-533-189-11	s	HOLDER, FUSE
1pc	3-169-383-01	o	BRACKET, PANEL
1pc	7-621-771-06	s	SCREW +B 2X5
2pcs	7-682-902-11	s	SCREW +PWH 2.6X5
C1	1-164-182-11	s	CERAMIC, CHIP 3300PF 10% 100V
C2	1-127-519-11	s	ALUMN SOLID 100uF 20% 20V
C3	1-164-489-11	s	CERAMIC, CHIP 0.22uF 10% 16V
C4	1-164-489-11	s	CERAMIC, CHIP 0.22uF 10% 16V
C5	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C6	1-163-038-00	s	CERAMIC 0.1uF 25V
CN441	1-535-894-11	o	TAB, FASTON
CN442	1-535-894-11	o	TAB, FASTON
CN443	1-506-469-11	s	CONNECTOR 4P, MALE
CN444	1-506-469-11	s	CONNECTOR 4P, MALE
CN445	1-566-758-11	o	CONNECTOR 3P, MALE
CN446	1-566-759-11	o	CONNECTOR 4P, MALE
D1	8-719-800-76	s	DIODE 1SS226
D2	8-719-801-78	s	DIODE 1SS184
D3	8-719-801-78	s	DIODE 1SS184
D4	8-719-158-15	s	DIODE RD5.6SB
F1 ⚠	1-532-749-11	s	FUSE, 8A 125V
F2 ⚠	1-532-749-11	s	FUSE, 8A 125V
IC1	8-759-927-99	s	IC MB3761PF
Q1	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q2	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q3	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q4	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q5	8-729-033-42	s	TRANSISTOR 2SK2206
Q6	8-729-033-42	s	TRANSISTOR 2SK2206
Q7	8-729-033-42	s	TRANSISTOR 2SK2206
Q8	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
R1	1-216-671-11	s	METAL, CHIP 6.8K 0.5% 1/10W
R2	1-208-823-11	s	METAL, CHIP 51K 0.5% 1/10W
R3	1-218-760-11	s	METAL, CHIP 220K 0.5% 1/10W
R4	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R5	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R6	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R7	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W
R8	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R9	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R10	1-216-676-11	s	METAL, CHIP 11K 0.5% 1/10W
R11	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R12	1-218-770-11	s	METAL, CHIP 560K 0.5% 1/10W
R13	1-216-695-11	s	METAL, CHIP 68K 0.5% 1/10W
R14	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R15	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R16	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R17	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R18	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R19	1-216-695-11	s	METAL, CHIP 68K 0.5% 1/10W
R20	1-218-772-11	s	METAL 680K 0.5% 1/10W
R21	1-216-695-11	s	METAL, CHIP 68K 0.5% 1/10W
R22	1-216-695-11	s	METAL, CHIP 68K 0.5% 1/10W
R23	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R24	1-216-671-11	s	METAL, CHIP 6.8K 0.5% 1/10W

(FU-63 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R25	1-216-671-11	s	METAL, CHIP 6.8K 0.5% 1/10W
R26	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R27	1-208-854-11	s	METAL, CHIP 1M 0.5% 1/10W
R28	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R29	1-216-671-11	s	METAL, CHIP 6.8K 0.5% 1/10W
R30	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R31	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W

KY-315/315P BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8276-948-A	o	MOUNTED CIRCUIT BOARD, KY-315 [for NTSC]
	A-8276-950-A	o	MOUNTED CIRCUIT BOARD, KY-315P [for PAL]
1pc	3-169-546-02	o	HOLDER, LCD
C1	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C2-9	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
CN461	1-566-766-11	o	CONNECTOR 11P, MALE
CN462	1-566-765-11	o	CONNECTOR 10P, MALE
CN463	1-566-765-11	o	CONNECTOR 10P, MALE
D1-21	8-719-941-09	s	DIODE DAP202U
D22	8-719-109-51	s	DIODE RD2.0ES-B2
D23	8-719-941-23	s	DIODE DA204U
D24	1-809-346-11	s	LED, BACK LIGHT
D25	1-809-346-11	s	LED, BACK LIGHT
D26	8-719-915-45	s	LED SLP162B, RED
D27	8-719-915-45	s	LED SLP162B, RED
D28	1-809-346-11	s	LED, BACK LIGHT
D29	1-809-346-11	s	LED, BACK LIGHT
D30	8-719-955-05	s	DIODE BR5505S
D31	1-809-346-11	s	LED, BACK LIGHT
D32	1-809-346-11	s	LED, BACK LIGHT
D33	8-719-902-27	s	LED EBR3402S, RED
D34	8-719-915-45	s	LED SLP162B, RED
D35	8-719-915-45	s	LED SLP162B, RED
D36	8-719-902-27	s	LED EBR3402S, RED
D37	8-719-902-27	s	LED EBR3402S, RED
D38	8-719-915-45	s	LED SLP162B, RED
IC1	8-759-171-74	s	IC MSM6660-01GS-V1K
IC2	8-759-932-10	s	IC MB88306PF
IC3	8-759-932-10	s	IC MB88306PF
IC4	8-759-926-25	s	IC SN74HC165ANS
L1	1-408-789-21	s	INDUCTOR, CHIP 100uH
ND1	1-809-345-11	s	UNIT, LCD
Q2	8-729-023-22	s	TRANSISTOR 2SD2114K
Q3	8-729-023-22	s	TRANSISTOR 2SD2114K
R1	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R2	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R3	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R4	1-216-059-00	s	METAL, CHIP 2.7K 5% 1/10W
R5	1-126-049-11	s	METAL, CHIP 1K 5% 1/10W
R6	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R7	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R8	1-216-013-00	s	METAL, CHIP 33 5% 1/10W
R9	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R10	1-216-013-00	s	METAL, CHIP 33 5% 1/10W
R11	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R12	1-216-013-00	s	METAL, CHIP 33 5% 1/10W
R13	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R14	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R15	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R16	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R17	1-216-059-00	s	METAL, CHIP 2.7K 5% 1/10W
R18	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R20	1-216-033-00	s	METAL, CHIP 220 5% 1/10W

(KY-315/315P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R21	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R22	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R23-30	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R31-35	1-216-036-00	s	METAL, CHIP 300 5% 1/10W
R36	1-216-013-00	s	METAL, CHIP 33 5% 1/10W
R37	1-216-013-00	s	METAL, CHIP 33 5% 1/10W
R38	1-216-013-00	s	METAL, CHIP 33 5% 1/10W
R40-47	1-126-049-11	s	METAL, CHIP 1K 5% 1/10W
S1-17	1-572-725-11	s	SWITCH, PUSH
S18	1-553-977-00	s	SWITCH, SLIDE
S19	1-553-977-00	s	SWITCH, SLIDE
S20	1-570-724-11	s	SWITCH, SLIDE
S21	1-570-724-11	s	SWITCH, SLIDE
S22	1-553-977-00	s	SWITCH, SLIDE
S23	1-570-337-11	s	SWITCH, DIGITAL
S24	1-570-337-11	s	SWITCH, DIGITAL
S25	1-553-977-00	s	SWITCH, SLIDE
S26	1-553-977-00	s	SWITCH, SLIDE [for NTSC]
S27	1-570-854-11	s	SWITCH, SLIDE
S28	1-554-377-21	s	SWITCH, SLIDE
S29	1-570-851-11	s	SWITCH, SLIDE

MB-601 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8276-909-A	o	MOUNTED CIRCUIT BOARD, MB-601
C903	1-110-985-11	s	ELECT 0.0012F 20% 6.3V
C904	1-110-988-11	s	ELECT 0.0022F 20% 6.3V
CN901	1-774-263-11	s	CONNECTOR, BOARD TO BOARD 20P
CN902-907	1-774-265-11	s	CONNECTOR, BOARD TO BOARD 30P
CN908	1-774-263-11	s	CONNECTOR, BOARD TO BOARD 20P
CN909	1-774-265-11	s	CONNECTOR, BOARD TO BOARD 30P
CN910	1-774-265-11	s	CONNECTOR, BOARD TO BOARD 30P
CN911	1-774-265-11	s	CONNECTOR, BOARD TO BOARD 30P
CN912	1-566-568-11	o	CONNECTOR 40P, FEMALE
CN913	1-580-538-11	o	CONNECTOR, LY 18P, MALE
CN914	1-566-758-11	o	CONNECTOR 3P, MALE
CN915	1-566-757-11	s	CONNECTOR, PC BOARD 2P, MALE
CN921	1-565-884-11	o	CONNECTOR 12P, MALE
CN923	1-566-759-11	o	CONNECTOR 4P, MALE
CN930	1-566-758-11	o	CONNECTOR 3P, MALE
CN931	1-535-894-11	o	TAB, FASTON
CN932	1-535-894-11	o	TAB, FASTON
CN941	1-566-763-11	o	CONNECTOR 8P, MAEL
CN942	1-506-468-11	s	CONNECTOR 3P, MALE
CN943	1-506-467-11	s	CONNECTOR 2P, MALE
CN944	1-506-467-11	s	CONNECTOR 2P, MALE
CN946	1-506-467-11	s	CONNECTOR 2P, MALE
CN947	1-564-002-41	s	CONNECTOR 3P, MALE
CN949	1-564-005-11	o	CONNECTOR 6P, MALE
CN951	1-506-467-11	s	CONNECTOR 2P, MALE
CN952	1-506-468-11	s	CONNECTOR 3P, MALE
CN953	1-564-002-11	s	CONNECTOR 3P, MALE
CN954	1-506-469-11	s	CONNECTOR 4P, MALE
CN955	1-564-002-41	s	CONNECTOR 3P, MALE
CN956	1-506-468-11	s	CONNECTOR 3P, MALE
CN957	1-506-472-11	o	CONNECTOR 7P, MALE
CN958	1-506-467-11	s	CONNECTOR 2P, MALE
CN960	1-564-001-11	o	CONNECTOR 2P, MALE
E1	3-657-235-00	o	POINT, TEST
E2	3-657-235-00	o	POINT, TEST
TP1-14	3-657-235-00	o	POINT, TEST

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PSW-31A BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8269-442-A	s	POWER ASSY [for J]
	A-8269-463-A	s	POWER ASSY [for US,SY]
3pcs	9-911-840-99	s	CUSHION, CRT
C1	1-127-520-11	s	ELECT 68uF 20% 20V
C2-9	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C10	1-163-038-00	s	CERAMIC 0.1uF 25V
C11	1-163-038-00	s	CERAMIC 0.1uF 25V
C12	1-163-038-00	s	CERAMIC 0.1uF 25V
C13	1-127-513-00	s	ALUMN SOLID 15uF 20% 25V
C14	1-127-513-00	s	ALUMN SOLID 15uF 20% 25V
C15	1-163-038-00	s	CERAMIC 0.1uF 25V
C16	1-163-038-00	s	CERAMIC 0.1uF 25V
C17	1-163-038-00	s	CERAMIC 0.1uF 25V
C18	1-127-519-11	s	ALUMN SOLID 100uF 20% 20V
C19	1-127-519-11	s	ALUMN SOLID 100uF 20% 20V
C20	1-127-531-11	s	ELECT 33uF 20% 20V
C21	1-127-519-11	s	ALUMN SOLID 100uF 20% 20V
C22	1-127-515-11	s	ALUMN SOLID 47uF 20% 10V
C23	1-127-532-11	s	ELECT 47uF 20% 20V
C24	1-127-515-11	s	ALUMN SOLID 47uF 20% 10V
C25	1-127-515-11	s	ALUMN SOLID 47uF 20% 10V
C26	1-127-515-11	s	ALUMN SOLID 47uF 20% 10V
C27	1-127-518-11	s	ALUMN SOLID 100uF 20% 16V
C28-33	1-111-011-11	s	ELECT 470uF 20% 10V
C34-39	1-163-038-00	s	CERAMIC 0.1uF 25V
C40	1-111-011-11	s	ELECT 470uF 20% 10V
C41	1-163-038-00	s	CERAMIC 0.1uF 25V
C42	1-163-038-00	s	CERAMIC 0.1uF 25V
CN601	1-506-469-11	s	CONNECTOR 4P, MALE
CN602	1-535-894-11	o	TAB, FASTON
CN603	1-566-566-11	o	CONNECTOR 40P, MALE
D1	8-719-981-38	s	DIODE ERC62M-004
D2-9	8-719-975-43	s	DIODE RB420D
D10	8-719-210-39	s	DIODE EC10QS-04
D11	8-719-210-39	s	DIODE EC10QS-04
F1 ⚠	1-532-679-21	s	LINK
FB1-7	1-543-821-11	s	BEAD, AMORPHOUS
L1	1-406-929-11	s	COIL, CHOKE
L2	1-424-517-11	s	COIL, CHOKE 200UH
L3	1-424-517-11	s	COIL, CHOKE 200UH
L4	1-411-521-11	s	COIL, CHOKE 52uH
L5	1-424-517-11	s	COIL, CHOKE 200UH
L6	1-411-521-11	s	COIL, CHOKE 52uH
L7-13	1-421-459-21	s	COIL, CHOKE
Q1	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q2	8-729-032-72	s	TRANSISTOR 2SJ332L
Q3	8-729-143-63	s	TRANSISTOR 2SJ132
Q4	8-729-031-13	s	TRANSISTOR SI-9430DY-T1
Q5	8-729-143-63	s	TRANSISTOR 2SJ132
Q6	8-729-031-13	s	TRANSISTOR SI-9430DY-T1
Q7	8-729-143-63	s	TRANSISTOR 2SJ132
Q8	8-729-031-13	s	TRANSISTOR SI-9430DY-T1
Q9	8-729-032-73	s	TRANSISTOR 2SK2084L
Q10	8-729-032-73	s	TRANSISTOR 2SK2084L
Q11	8-729-032-73	s	TRANSISTOR 2SK2084L

Ref. No. or Q'ty	Part No.	SP	Description
Q12	8-729-032-73	s	TRANSISTOR 2SK2084L
R1	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R2	1-219-724-11	s	METAL 1 1% 1/4W
R3	1-219-724-11	s	METAL 1 1% 1/4W
R4	1-219-723-11	s	METAL 0.15 1% 1/4W
R5	1-219-724-11	s	METAL 1 1% 1/4W
R6	1-219-724-11	s	METAL 1 1% 1/4W
R7	1-219-723-11	s	METAL 0.15 1% 1/4W
R8	1-219-723-11	s	METAL 0.15 1% 1/4W
R9	1-219-724-11	s	METAL 1 1% 1/4W
R10	1-219-724-11	s	METAL 1 1% 1/4W
R11	1-219-723-11	s	METAL 0.15 1% 1/4W
R12	1-219-722-11	s	METAL 0.1 1% 1/4W
R13	1-219-723-11	s	METAL 0.15 1% 1/4W
R14	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R15	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R16	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R17	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R18	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R19	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R20	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R21	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R22	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R23	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R24	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R25	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R26	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R27	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R28	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R29	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R30	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R31	1-216-001-00	s	METAL, CHIP 10 5% 1/10W
R32	1-216-001-00	s	METAL, CHIP 10 5% 1/10W
R33	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R34	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R35	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R36	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R37	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R38	1-216-093-00	s	METAL, CHIP 68K 5% 1/10W
R39	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W

PSW-31B BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8269-442-A	s	POWER ASSY [for J]
	A-8269-463-A	s	POWER ASSY [for US,SY]
C101	1-111-057-11	s	ELECT 120uF 20% 25V
C102	1-164-346-11	s	CERAMIC 1uF 16V
C103	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C104	1-111-107-11	s	ELECT 10uF 20% 50V
C105	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C106	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C107	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C108	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C109	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C110	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C111	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C112	1-135-149-21	s	TANTALUM, CHIP 2.2uF 10% 10V
C113-117	1-135-209-11	s	TANTALUM, CHIP 3.3uF 20% 10V
C118	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C119	1-162-968-11	s	CERAMIC, CHIP 0.0047uF 10% 50V
C120	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C121	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C122	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C123	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C124	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C125	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C126	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C127	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C128	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C129	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C130	1-164-218-11	s	CERAMIC, CHIP 180PF 50V
C131	1-164-677-11	s	CERAMIC, CHIP 0.033uF 10% 16V
C132-137	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C138-149	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C150	1-164-677-11	s	CERAMIC, CHIP 0.033uF 10% 16V
D101	8-719-941-09	s	DIODE DAP202U
D102	8-759-030-61	s	IC TL431CM
IC101	8-759-927-99	s	IC MB3761PF
IC102	8-759-066-68	s	IC REF-03GS
IC103	8-759-260-57	s	IC TL1451ACPW-E05
IC104	8-759-260-57	s	IC TL1451ACPW-E05
IC105	8-759-260-57	s	IC TL1451ACPW-E05
Q101	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q102	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q103	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q104	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q105-110	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q111	8-729-012-35	s	TRANSISTOR 2SK711-BL
Q112	8-729-012-35	s	TRANSISTOR 2SK711-BL
Q113	8-729-012-35	s	TRANSISTOR 2SK711-BL
Q114	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q115	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q116	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q118	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q120	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q121	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q122	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q123	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q124	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q125	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q126	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6

(PSW-31B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q127	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q128	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q129	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q130	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q131	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q132	8-729-927-68	s	TRANSISTOR UMW1
Q133	8-729-927-68	s	TRANSISTOR UMW1
Q134	8-729-927-68	s	TRANSISTOR UMW1
Q135	8-729-209-06	s	TRANSISTOR 2SC4213-A
Q136	8-729-209-06	s	TRANSISTOR 2SC4213-A
Q137	8-729-209-06	s	TRANSISTOR 2SC4213-A
R101	1-218-881-11	s	METAL, CHIP 27K 0.5% 1/16W
R102	1-218-707-11	s	METAL, CHIP 4.3K 0.5% 1/16W
R103	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R104	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R105	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R106	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R107	1-216-846-11	s	METAL, CHIP 120K 5% 1/16W
R108	1-216-846-11	s	METAL, CHIP 120K 5% 1/16W
R109	1-216-843-11	s	METAL, CHIP 68K 5% 1/16W
R110	1-216-846-11	s	METAL, CHIP 120K 5% 1/16W
R111	1-216-843-11	s	METAL, CHIP 68K 5% 1/16W
R112	1-216-846-11	s	METAL, CHIP 120K 5% 1/16W
R113	1-216-843-11	s	METAL, CHIP 68K 5% 1/16W
R114	1-216-846-11	s	METAL, CHIP 120K 5% 1/16W
R115	1-216-843-11	s	METAL, CHIP 68K 5% 1/16W
R116	1-216-846-11	s	METAL, CHIP 120K 5% 1/16W
R117	1-216-843-11	s	METAL, CHIP 68K 5% 1/16W
R118	1-216-846-11	s	METAL, CHIP 120K 5% 1/16W
R119-126	1-218-367-11	s	METAL, CHIP 10K 0.1% 1/10W
R127-132	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R133	1-219-711-11	s	METAL, CHIP 220 0.1% 1/10W
R134	1-219-714-11	s	METAL, CHIP 820 0.1% 1/10W
R135	1-219-712-11	s	METAL, CHIP 390 0.1% 1/10W
R136	1-219-713-11	s	METAL, CHIP 620 0.1% 1/10W
R137	1-219-710-11	s	METAL, CHIP 100 0.1% 1/10W
R138	1-218-182-11	s	METAL, CHIP 270 0.1% 1/16W
R139	1-219-715-11	s	METAL, CHIP 5.1K 0.1% 1/10W
R140	1-219-715-11	s	METAL, CHIP 5.1K 0.1% 1/10W
R141	1-219-715-11	s	METAL, CHIP 5.1K 0.1% 1/10W
R142	1-211-998-11	s	METAL, CHIP 4.7K 0.1% 1/10W
R143	1-219-715-11	s	METAL, CHIP 5.1K 0.1% 1/10W
R144	1-219-716-11	s	METAL, CHIP 5.6K 0.1% 1/10W
R145	1-218-367-11	s	METAL, CHIP 10K 0.1% 1/10W
R146	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R147	1-219-717-11	s	METAL, CHIP 18K 0.1% 1/10W
R148	1-219-391-21	s	METAL, CHIP 47K 0.1% 1/10W
R149	1-216-677-11	s	METAL, CHIP 12K 0.5% 1/10W
R150	1-216-674-11	s	METAL, CHIP 9.1K 0.5% 1/10W
R151	1-216-684-11	s	METAL, CHIP 24K 0.5% 1/10W
R152	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R153	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R154	1-218-367-11	s	METAL, CHIP 10K 0.1% 1/10W
R155	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R156	1-216-835-11	s	METAL, CHIP 15K 5% 1/16W
R157	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R158	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R159	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W

(PSW-31B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R160	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R161-166	1-216-813-11	s	METAL, CHIP 220 5% 1/16W
R167	1-216-840-11	s	METAL, CHIP 39K 5% 1/16W
R168	1-216-807-11	s	METAL, CHIP 68 5% 1/16W
R169	1-216-807-11	s	METAL, CHIP 68 5% 1/16W
R170	1-216-807-11	s	METAL, CHIP 68 5% 1/16W
R171	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R172	1-218-272-11	s	METAL, CHIP 5.1K 5% 1/16W
R173	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R174	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R175	1-216-816-11	s	METAL, CHIP 390 5% 1/16W
R177	1-216-812-11	s	METAL, CHIP 180 5% 1/16W
R176	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R178	1-216-812-11	s	METAL, CHIP 180 5% 1/16W
R179	1-216-812-11	s	METAL, CHIP 180 5% 1/16W
R180	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R181	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R182	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R183	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R184	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R185	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R186	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W
R187	1-216-840-11	s	METAL, CHIP 39K 5% 1/16W
R188	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W
R189	1-216-840-11	s	METAL, CHIP 39K 5% 1/16W
R190	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W
R191	1-216-840-11	s	METAL, CHIP 39K 5% 1/16W
R192	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W
R193	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W
R194	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W
R195	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R196	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R197	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R198	1-216-814-11	s	METAL, CHIP 270 5% 1/16W
R199	1-216-840-11	s	METAL, CHIP 39K 5% 1/16W
R200	1-216-814-11	s	METAL, CHIP 270 5% 1/16W
R201	1-216-840-11	s	METAL, CHIP 39K 5% 1/16W
R202	1-216-814-11	s	METAL, CHIP 270 5% 1/16W
R203	1-216-840-11	s	METAL, CHIP 39K 5% 1/16W
TH101	1-809-308-21	s	THERMISTOR, CHIP 3.3K
TH102	1-809-308-21	s	THERMISTOR, CHIP 3.3K
TH103	1-809-308-21	s	THERMISTOR, CHIP 3.3K

PSW-31C BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8269-442-A	s	POWER ASSY [for J]
	A-8269-463-A	s	POWER ASSY [for US,SY]
C301	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C302	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C303	1-163-038-00	s	CERAMIC 0.1uF 25V
C304	1-164-489-11	s	CERAMIC, CHIP 0.22uF 10% 16V
C305	1-164-489-11	s	CERAMIC, CHIP 0.22uF 10% 16V
C306	1-164-489-11	s	CERAMIC, CHIP 0.22uF 10% 16V
C307	1-163-989-11	s	CERAMIC, CHIP 0.033uF 10% 25V
C308	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C309	1-163-038-00	s	CERAMIC 0.1uF 25V
C310	1-163-038-00	s	CERAMIC 0.1uF 25V
C311	1-127-513-00	s	ALUMN SOLID 15uF 20% 25V
C312	1-111-156-11	s	ELECT 5.6uF 20% 100V
C313	1-111-156-11	s	ELECT 5.6uF 20% 100V
D301	8-719-901-83	s	DIODE 1SS83
FB301	1-543-821-11	s	BEAD, AMORPHOUS
IC301	8-759-937-36	s	IC TL1451ACNS
L301	1-424-517-11	s	COIL, CHOKE 200UH
Q301	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q302	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q303	8-729-120-53	s	TRANSISTOR 2SJ132-Z
Q304	8-729-143-13	s	TRANSISTOR 2SC4176-B34
Q305	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q306	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q307	8-729-032-71	s	TRANSISTOR 2SK1949L
R301	1-216-105-00	s	METAL, CHIP 220K 5% 1/10W
R302	1-216-111-00	s	METAL, CHIP 390K 5% 1/10W
R303	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R304	1-218-182-11	s	METAL, CHIP 270 0.1% 1/16W
R305	1-219-715-11	s	METAL, CHIP 5.1K 0.1% 1/10W
R306	1-218-367-11	s	METAL, CHIP 10K 0.1% 1/10W
R307	1-218-367-11	s	METAL, CHIP 10K 0.1% 1/10W
R308	1-220-154-11	s	METAL, CHIP 100K 0.1% 1/10W
R309	1-220-154-11	s	METAL, CHIP 100K 0.1% 1/10W
R310	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R311	1-219-724-11	s	METAL 1 1% 1/4W
R312	1-219-724-11	s	METAL 1 1% 1/4W
R313	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R314	1-216-051-00	s	METAL, CHIP 1.2K 5% 1/10W
R315	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W
R316	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R317	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R318	1-216-069-00	s	METAL, CHIP 6.8K 5% 1/10W
R319	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R320	1-216-001-00	s	METAL, CHIP 10 5% 1/10W
R321	1-215-857-11	s	METAL 10 5% 1W
TH301	1-809-308-21	s	THERMISTOR, CHIP 3.3K

SE-233 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-657-800-11	o	PRINTED CIRCUIT BOARD, SE-233
CN1	1-764-007-11	s	CONNECTOR, 1.5mm SMD 12P, MALE
S1	1-572-719-11	s	SWITCH, PUSH
S2	1-572-719-11	s	SWITCH, PUSH
S3	1-572-719-11	s	SWITCH, PUSH
S4	1-572-719-11	s	SWITCH, PUSH
S7-11	1-572-719-11	s	SWITCH, PUSH

SST-3/3P BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8276-910-B	o	MOUNTED CIRCUIT BOARD, SST-3 [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher]
	A-8276-912-B	o	MOUNTED CIRCUIT BOARD, SST-3P [for SY:S/N 10116 and higher]
	A-8276-910-A	o	MOUNTED CIRCUIT BOARD, SST-3 [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065]
	A-8276-912-A	o	MOUNTED CIRCUIT BOARD, SST-3P [for SY:S/N 10001 through 10115]
1pc	3-509-140-00	o	HOLDER, WIRE
BT111	1-528-292-11	o	BATTERY, SUPER LITHIUM
C1	1-126-096-11	s	ELECT 10uF 20% 35V
C2	1-124-242-00	s	ELECT 33uF 20% 25V
C3	1-163-038-00	s	CERAMIC 0.1uF 25V
C4	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V
C5	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V
C6	1-163-038-00	s	CERAMIC 0.1uF 25V
C7	1-163-038-00	s	CERAMIC 0.1uF 25V
C8	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C9	1-163-038-00	s	CERAMIC 0.1uF 25V
C10	1-163-227-11	s	CERAMIC, CHIP 10PF 5% 50V
C11	1-163-222-11	s	CERAMIC, CHIP 5PF 50V
C12	1-164-346-11	s	CERAMIC 1uF 16V
C13	1-164-346-11	s	CERAMIC 1uF 16V
C14	1-128-126-11	s	ELECT 100uF 20% 25V
C15	1-163-133-00	s	CERAMIC, CHIP 470PF 5% 50V
C16	1-128-126-11	s	ELECT 100uF 20% 25V
C17	1-126-398-11	s	ELECT, CHIP 4.7uF 20% 35V
C18	1-163-133-00	s	CERAMIC, CHIP 470PF 5% 50V
C19	1-163-133-00	s	CERAMIC, CHIP 470PF 5% 50V
C20	1-126-401-11	s	ELECT, CHIP 1uF 20% 50V
C21	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C22	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C23	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C24	1-163-038-00	s	CERAMIC 0.1uF 25V
C25	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C26	1-128-499-11	s	ELECT 220uF 20% 16V
C27	1-128-499-11	s	ELECT 220uF 20% 16V
C28	1-163-038-00	s	CERAMIC 0.1uF 25V
C29	1-163-038-00	s	CERAMIC 0.1uF 25V
C30	1-163-038-00	s	CERAMIC 0.1uF 25V
C31	1-163-038-00	s	CERAMIC 0.1uF 25V
C111	1-126-916-11	s	ELECT 1000uF 20% 6.3V
C112	1-163-038-00	s	CERAMIC 0.1uF 25V
C113	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C114	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C115	1-163-038-00	s	CERAMIC 0.1uF 25V
C116	1-163-113-00	s	CERAMIC, CHIP 68PF 5% 50V
C117	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V
C118	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V
C119	1-163-038-00	s	CERAMIC 0.1uF 25V
C120	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C121	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C122	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C151	1-163-038-00	s	CERAMIC 0.1uF 25V
C152	1-163-038-00	s	CERAMIC 0.1uF 25V
C153	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V

(SST-3/3P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C154	1-163-038-00	s	CERAMIC 0.1uF 25V
C155	1-163-038-00	s	CERAMIC 0.1uF 25V
C156	1-163-038-00	s	CERAMIC 0.1uF 25V
C301	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C302	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C303	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C304	1-163-038-00	s	CERAMIC 0.1uF 25V
C305	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C306	1-163-121-00	s	CERAMIC, CHIP 150PF 5% 50V
C307	1-163-038-00	s	CERAMIC 0.1uF 25V
C308	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C309	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C310	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C351-358	1-163-038-00	s	CERAMIC 0.1uF 25V
C401	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C402	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C403	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C404	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C405	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C406	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C407	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C408	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C409	1-126-096-11	s	ELECT 10uF 20% 35V
C410	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C411	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C412	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C413	1-163-143-00	s	CERAMIC, CHIP 0.0012uF 5% 50V
C414	1-163-143-00	s	CERAMIC, CHIP 0.0012uF 5% 50V
C415	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C416	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C417	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C418	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C419	1-163-263-11	s	CERAMIC, CHIP 330PF 5% 50V
C420	1-163-263-11	s	CERAMIC, CHIP 330PF 5% 50V
C421	1-163-091-00	s	CERAMIC, CHIP 8PF 50V
C422	1-163-091-00	s	CERAMIC, CHIP 8PF 50V
C423	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C424	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C425	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C426	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C427	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C428	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C432-449	1-163-038-00	s	CERAMIC 0.1uF 25V
C450	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C451	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C452	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C453	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C454	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C455	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C456	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C457	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C458	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C459	1-164-489-11	s	CERAMIC, CHIP 0.22uF 10% 16V
C501	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C502	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C503	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C504	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C505	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C506	1-163-113-00	s	CERAMIC, CHIP 68PF 5% 50V

(SST-3/3P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C507	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C508	1-163-113-00	s	CERAMIC, CHIP 68PF 5% 50V
C509	1-163-017-00	s	CERAMIC, CHIP 0.0047uF 5% 50V
C510	1-163-017-00	s	CERAMIC, CHIP 0.0047uF 5% 50V
C515	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C516	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C517	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C519	1-163-989-11	s	CERAMIC, CHIP 0.033uF 10% 25V
C520-524	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C601	1-163-989-11	s	CERAMIC, CHIP 0.033uF 10% 25V
C602	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C603	1-163-989-11	s	CERAMIC, CHIP 0.033uF 10% 25V
C604	1-163-121-00	s	CERAMIC, CHIP 150PF 5% 50V
C605	1-163-989-11	s	CERAMIC, CHIP 0.033uF 10% 25V
C606	1-163-127-00	s	CERAMIC, CHIP 270PF 5% 50V
C607	1-126-946-11	s	ELECT 6800uF 20% 25V
C608	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C609	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C610	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C611	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C612	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C613	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C614	1-163-127-00	s	CERAMIC, CHIP 270PF 5% 50V
C615	1-163-038-00	s	CERAMIC 0.1uF 25V
C616	1-126-022-11	s	ELECT 47uF 20% 25V
C617	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C618	1-163-038-00	s	CERAMIC 0.1uF 25V
C619	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C620	1-126-022-11	s	ELECT 47uF 20% 25V
C621	1-163-038-00	s	CERAMIC 0.1uF 25V
C622	1-126-022-11	s	ELECT 47uF 20% 25V
C623	1-126-022-11	s	ELECT 47uF 20% 25V
C624	1-163-038-00	s	CERAMIC 0.1uF 25V
C625	1-163-989-11	s	CERAMIC, CHIP 0.033uF 10% 25V
C626	1-163-989-11	s	CERAMIC, CHIP 0.033uF 10% 25V
C627	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C628	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C629	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C631	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C632	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C633	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C634	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C635	1-163-809-11	s	CERAMIC, CHIP 0.047uF 10% 25V
C637-642	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C643	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C644	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C645	1-126-022-11	s	ELECT 47uF 20% 25V
C646	1-126-022-11	s	ELECT 47uF 20% 25V
C647	1-126-022-11	s	ELECT 47uF 20% 25V
C648	1-126-022-11	s	ELECT 47uF 20% 25V
C649	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C650	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C651	1-126-096-11	s	ELECT 10uF 20% 35V
C652	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C801	1-165-112-11	s	CERAMIC 0.33uF 16V
C802	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C803	1-135-166-21	s	TANTALUM, CHIP 47uF 10% 10V
C804	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C805	1-135-166-21	s	TANTALUM, CHIP 47uF 10% 10V

Ref. No. or Q'ty	Part No.	SP	Description
C806	1-104-547-11	s	FILM, CHIP 0.0047uF 5% 16V [for NTSC]
	1-107-553-11	s	FILM, CHIP 0.0056uF 2% 16V [for PAL]
C851	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C852	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C853	1-104-553-11	s	FILM, CHIP 0.015uF 5% 16V
C854	1-135-201-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C855	1-135-201-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C856	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
C857	1-163-038-00	s	CERAMIC 0.1uF 25V
C858	1-163-038-00	s	CERAMIC 0.1uF 25V
C859	1-163-038-00	s	CERAMIC 0.1uF 25V
C860	1-163-038-00	s	CERAMIC 0.1uF 25V
C861	1-163-121-00	s	CERAMIC, CHIP 150PF 5% 50V
C901	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C902	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C903	1-163-017-00	s	CERAMIC, CHIP 0.0047uF 5% 50V
C904	1-104-552-11	s	FILM, CHIP 0.012uF 5% 16V
C905	1-104-563-11	s	FILM, CHIP 0.1uF 5% 16V
C906	1-135-318-11	s	TANTALUM, CHIP 33uF 20% 4V
C907	1-135-318-11	s	TANTALUM, CHIP 33uF 20% 4V
C908	1-135-201-11	s	TANTALUM, CHIP 10uF 20% 6.3V
C909	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
C910	1-163-038-00	s	CERAMIC 0.1uF 25V
C911	1-163-038-00	s	CERAMIC 0.1uF 25V
C912	1-163-038-00	s	CERAMIC 0.1uF 25V
C913	1-163-038-00	s	CERAMIC 0.1uF 25V
C914	1-163-121-00	s	CERAMIC, CHIP 150PF 5% 50V
C915	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C941	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C942	1-163-017-00	s	CERAMIC, CHIP 0.0047uF 5% 50V
C943	1-163-017-00	s	CERAMIC, CHIP 0.0047uF 5% 50V
C944	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C945	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C946	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C947	1-163-017-00	s	CERAMIC, CHIP 0.0047uF 5% 50V
C948	1-109-898-11	s	CERAMIC, CHIP 0.018uF 5% 100V
C949	1-109-897-11	s	CERAMIC, CHIP 0.015uF 5% 100V
C961	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C962	1-163-017-00	s	CERAMIC, CHIP 0.0047uF 5% 50V
C963	1-163-017-00	s	CERAMIC, CHIP 0.0047uF 5% 50V
C964	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C965	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C966	1-126-395-11	s	ELECT, CHIP 22uF 20% 16V
C967	1-164-161-11	s	CERAMIC, CHIP 2200PF 5% 50V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
	1-163-017-00	s	CERAMIC, CHIP 0.0047uF 5% 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
C968	1-109-898-11	s	CERAMIC, CHIP 0.018uF 5% 100V
C969	1-109-897-11	s	CERAMIC, CHIP 0.015uF 5% 100V
C981	1-163-038-00	s	CERAMIC 0.1uF 25V
C982	1-163-038-00	s	CERAMIC 0.1uF 25V
C983	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C984	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V

Ref. No. or Q'ty	Part No.	SP	Description
C985	1-163-038-00	s	CERAMIC 0.1uF 25V
C986	1-163-038-00	s	CERAMIC 0.1uF 25V
C987	1-163-038-00	s	CERAMIC 0.1uF 25V
C988	1-163-038-00	s	CERAMIC 0.1uF 25V
C989	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C990	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C991	1-163-038-00	s	CERAMIC 0.1uF 25V
C992	1-163-038-00	s	CERAMIC 0.1uF 25V
C993	1-163-038-00	s	CERAMIC 0.1uF 25V
C994	1-163-038-00	s	CERAMIC 0.1uF 25V
CN1	1-506-469-11	s	CONNECTOR 4P, MALE
CN101	1-566-767-11	o	CONNECTOR 12P, MALE
CN102	1-506-469-11	s	CONNECTOR 4P, MALE
CN103	1-566-766-11	o	CONNECTOR 11P, MALE
CN104	1-566-765-11	o	CONNECTOR 10P, MALE
CN105	1-566-760-11	s	CONNECTOR, ZR 5P, MALE
CN106	1-565-772-11	o	CONNECTOR, PS 10P, MALE
CN107	1-566-764-11	o	CONNECTOR 9P, MALE
CN108	1-566-765-11	o	CONNECTOR 10P, MALE
CN109	1-566-761-11	o	CONNECTOR 6P, MALE
CN110	1-580-716-11	o	CONNECTOR 13P, MALE
CN111	1-566-760-11	s	CONNECTOR, ZR 5P, MALE
CN112	1-566-760-11	s	CONNECTOR, ZR 5P, MALE
CN113	1-506-482-11	s	CONNECTOR 3P, MALE
CN114	1-506-467-11	o	CONNECTOR 2P, MALE
CN115	1-566-759-11	o	CONNECTOR 4P, MALE
CN501	1-564-004-11	o	CONNECTOR, 5P, MALE
CN901	1-774-267-11	s	CONNECTOR, BOARD TO BOARD 20P
CN902	1-774-269-11	s	CONNECTOR, BOARD TO BOARD 30P
CN903	1-774-269-11	s	CONNECTOR, BOARD TO BOARD 30P
CN904	1-774-269-11	s	CONNECTOR, BOARD TO BOARD 30P
CN905	1-774-269-11	s	CONNECTOR, BOARD TO BOARD 30P
CNI24	1-526-662-21	o	SOCKET, IC (DP) 40P
CNI413	1-540-119-11	o	SOCKET, IC (IC113) 44P
CT941	1-424-511-11	s	TRANSFORMER, FE
CT961	1-424-511-11	s	TRANSFORMER, FE
CV111	1-141-368-11	s	CAP, TRIMMER, CHIP 30PF
D1	8-719-911-19	s	DIODE 1SS119
D2	8-719-820-12	s	DIODE TLR224
D3	8-719-987-87	s	DIODE ERA85-009
D4	8-719-975-85	s	DIODE ERB83-004
D5	8-719-941-86	s	DIODE DAN202U
D6	8-719-987-87	s	DIODE ERA85-009
D7	8-719-987-87	s	DIODE ERA85-009
D8	8-719-101-98	s	DIODE 1SS97-0
D111	8-719-902-27	s	LED EBR3402S, RED
D113	8-719-987-87	s	DIODE ERA85-009
D114	8-719-941-86	s	DIODE DAN202U
D115	8-719-941-86	s	DIODE DAN202U
D301	8-719-941-86	s	DIODE DAN202U
D302	8-719-941-09	s	DIODE DAP202U
D351-358	8-719-977-34	s	DIODE DTZ12
D401	8-719-941-09	s	DIODE DAP202U
D402	8-719-941-09	s	DIODE DAP202U
D403-409	8-719-987-87	s	DIODE ERA85-009
D410	8-719-975-56	s	DIODE 1SS120A
D501	8-719-913-37	s	DIODE GP-1A06

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Ref. No. or Q'ty	Part No.	SP	Description
D502	8-719-913-37	s	DIODE GP-1A06
D505	8-719-989-22	s	DIODE CL-150R-CD
D506	8-719-989-22	s	DIODE CL-150R-CD
D507	8-719-989-22	s	DIODE CL-150R-CD
D508	8-719-989-22	s	DIODE CL-150R-CD
D601	8-719-106-53	s	DIODE RD10M-B2
D602	8-719-975-85	s	DIODE ERB83-004
D603	8-719-975-85	s	DIODE ERB83-004
D604	8-719-106-88	s	DIODE RD15M-B1
D605	8-719-941-86	s	DIODE DAN202U
D606	8-719-941-86	s	DIODE DAN202U
D607	8-719-975-85	s	DIODE ERB83-004
D608	8-719-975-85	s	DIODE ERB83-004
D609	8-719-941-86	s	DIODE DAN202U
D610	8-719-941-86	s	DIODE DAN202U
D611	8-719-941-23	s	DIODE DA204U
D612	8-719-941-23	s	DIODE DA204U
D614	8-719-109-76	s	DIODE RD4.3ESB3
D615	8-719-109-76	s	DIODE RD4.3ESB3
D801	8-719-941-23	s	DIODE DA204U
D802	8-719-941-23	s	DIODE DA204U
D803	8-719-105-28	s	DIODE RD2.4M-B
D804	8-719-105-28	s	DIODE RD2.4M-B
D941	8-719-941-86	s	DIODE DAN202U
D961	8-719-941-86	s	DIODE DAN202U
D962	8-719-801-48	s	DIODE 1SS193
FB1	1-543-309-21	s	BEAD, FERRITE
FB601	1-543-309-21	s	BEAD, FERRITE
FB602	1-543-309-21	s	BEAD, FERRITE
FB603	1-543-309-21	s	BEAD, FERRITE
IC1	8-759-925-90	s	IC SN74HC74ANS
IC2	8-759-925-90	s	IC SN74HC74ANS
IC3	8-759-186-38	s	IC TC74VHC32F
IC4	8-759-985-18	s	IC 74AC08SJ
IC5	8-759-209-15	s	IC TC4SU69F
IC6	8-759-985-22	s	IC 74AC11SJ
IC7	8-759-985-17	s	IC 74AC04SJ
IC8	8-759-989-91	s	IC TL7705ACPS
IC9	8-759-925-74	s	IC TC74HC04ANS
IC10	8-759-926-77	s	IC SN74HC541ANS
IC11	8-759-925-75	s	IC SN74HC05ANS
IC12	8-759-925-90	s	IC SN74HC74ANS
IC13	8-759-925-90	s	IC SN74HC74ANS
IC14	8-759-985-78	s	IC 74AC541SJ
IC15	8-759-361-52	s	IC MC68340FE16C
IC16	8-759-985-26	s	IC 74AC74SJ
IC17	8-759-985-26	s	IC 74AC74SJ
IC18	8-759-985-33	s	IC 74AC139SJ
IC19	8-759-985-25	s	IC 74AC32SJ
IC20	8-759-985-25	s	IC 74AC32SJ
IC21	8-759-985-25	s	IC 74AC32SJ
IC22	8-759-985-26	s	IC 74AC74SJ
IC23	8-759-985-26	s	IC 74AC74SJ
IC24	8-759-398-04	o	IC 27C4002SST-3SY-V1.00 [for NTSC]
	8-759-398-02	o	IC 27C4002SST-3SY-V1.01 [for PAL]
IC25	8-752-337-79	s	IC CXK58257AM-10LL
IC26	8-752-337-79	s	IC CXK58257AM-10LL
IC27	8-759-985-25	s	IC 74AC32SJ

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Ref. No. or Q'ty	Part No.	SP	Description
IC28	8-759-054-54	s	IC SRM2016M10
IC29	8-759-937-36	s	IC TL1451ACNS
IC30	8-759-009-05	s	IC MC14051BF
IC31	8-759-243-26	s	IC TC35080P
IC32	8-759-035-93	s	IC TC7S32F-TE85L
IC33	8-759-195-02	s	IC TC7S86F-TE85R
IC112	8-759-081-42	s	IC TC74VHC00F
IC113	8-759-059-20	s	IC UPD75004GB-755-3B4
IC114	8-759-083-94	s	IC TC7W74FU
IC115	8-759-922-48	s	IC S-8052ALY
IC116	8-759-927-18	s	IC SN74HCT541NS
IC117	8-759-209-15	s	IC TC4SU69F
IC118	8-759-175-77	s	IC CXD8384Q
IC119	8-759-300-71	s	IC HD14053BFP
IC120	8-759-348-84	s	IC HM53051FP-60
IC121	8-759-230-14	s	IC TC4S81F(TE85R)
IC122	8-759-031-84	s	IC TC7S04F
IC151	8-759-926-77	s	IC SN74HC541ANS
IC153	8-759-348-79	s	IC TE7751
IC154	8-759-926-77	s	IC SN74HC541ANS
IC155	8-759-926-77	s	IC SN74HC541ANS
IC156	8-759-926-77	s	IC SN74HC541ANS
IC158	8-759-938-68	s	IC CXD1095Q
IC160	8-759-985-17	s	IC 74AC04SJ
IC164	8-759-927-12	s	IC SN74HCT244ANS
IC165	8-759-175-55	s	IC CXD8805Q
IC167	8-759-053-58	s	IC IDT6116SA25SO
IC301	8-759-320-67	s	IC HM6264ALFP-12LTZ
IC302	8-759-999-19	s	IC MB88323A-PF-K2
IC303	8-759-175-56	s	IC CXD8804Q
IC304	8-759-927-18	s	IC SN74HCT541NS
IC306	8-759-926-77	s	IC SN74HC541ANS
IC307	8-759-926-98	s	IC SN74HC4040ANS
IC308	8-759-926-77	s	IC SN74HC541ANS
IC309	8-759-241-49	s	IC TC74HCT540AF
IC310	1-577-382-11	s	VCO, CRYSTAL 16.000MHz
IC311	8-759-927-15	s	IC SN74HCT245NS
IC312	8-759-926-77	s	IC SN74HC541ANS
IC351	8-759-246-11	s	IC T6963C
IC352	8-759-054-54	s	IC SRM2016M10
IC353	8-759-348-83	s	IC LTC1337CS
IC354	8-759-348-82	s	IC LTC491CS-E2
IC355	8-759-356-96	s	IC LT1180ACS-E2
IC401	8-759-983-74	s	IC LM324NS
IC402	8-759-009-05	s	IC MC14051BF
IC403	8-759-009-05	s	IC MC14051BF
IC404	8-759-348-69	s	IC HD6415108RF10
IC405	8-759-294-75	s	IC CAT93C46KI
IC406	8-759-805-32	s	IC LA7205M
IC407	8-759-805-32	s	IC LA7205M
IC409	8-759-053-58	s	IC IDT6116SA25SO
IC410	8-759-053-58	s	IC IDT6116SA25SO
IC411	8-759-925-78	s	IC SN74HC10ANS
IC412	8-759-927-46	s	IC SN74HC00ANS
IC413	8-759-398-05	o	IC 27C1024SST-3SV-V1.00 [for NTSC]
	8-759-398-03	o	IC 27C1024SST-3SV-V1.01 [for PAL]
IC414	8-759-239-55	s	IC TC74HC123AF
IC415	8-759-032-01	s	IC MC74HC00AF
IC501	8-759-983-74	s	IC LM324NS

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Ref. No. or Q'ty	Part No.	SP	Description
IC502	8-759-925-05	s	IC LM2903PS
IC504	8-752-343-05	s	IC CXD2202Q
IC505	8-759-983-69	s	IC LM358PS
IC506	8-759-938-68	s	IC CXD1095Q
IC601	8-759-925-05	s	IC LM2903PS
IC602	8-759-983-69	s	IC LM358PS
IC603	8-759-983-69	s	IC LM358PS
IC604	8-759-983-69	s	IC LM358PS
IC605	8-759-925-05	s	IC LM2903PS
IC606	8-759-245-52	s	IC TA7291F
IC607	8-759-245-52	s	IC TA7291F
IC608	8-759-983-74	s	IC LM324NS
IC609	8-759-983-74	s	IC LM324NS
IC610	8-759-925-05	s	IC LM2903PS
IC611	8-759-983-69	s	IC LM358PS
IC612	8-759-983-69	s	IC LM358PS
IC801	8-759-173-16	s	IC TL062CPW
IC802	8-759-700-45	s	IC NJM4556M-A
IC803	8-759-209-57	s	IC TC4S69F
IC851	8-759-066-61	s	IC TC4053BFS
IC852	8-759-710-28	s	IC NJM4565M-A
IC853	8-759-700-07	s	IC NJM2903M
IC901	8-759-066-61	s	IC TC4053BFS
IC902	8-759-710-28	s	IC NJM4565M-A
IC903	8-759-700-07	s	IC NJM2903M
IC904	8-759-209-15	s	IC TC4SU69F
IC941	8-759-209-15	s	IC TC4SU69F
IC961	8-759-209-15	s	IC TC4SU69F
L1	1-424-517-11	s	COIL, CHOKE 200uH
L2	1-424-517-11	s	COIL, CHOKE 200uH
L301	1-408-779-31	s	INDUCTOR, CHIP 15uH
L601	1-424-517-11	s	COIL, CHOKE 200uH
L602	1-424-517-11	s	COIL, CHOKE 200uH
L603	1-424-517-11	s	COIL, CHOKE 200uH
L604	1-424-517-11	s	COIL, CHOKE 200uH
L941	1-424-642-11	s	COIL, CHOKE 47uH
L961	1-424-642-11	s	COIL, CHOKE 47uH
L981	1-424-643-11	s	COIL, CHOKE 10uH
L982	1-424-643-11	s	COIL, CHOKE 10uH
LV961	1-414-007-11	s	COIL, VAR 1.5uH
Q1	8-729-117-32	s	TRANSISTOR 2SC4177
Q2	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q3	8-729-321-78	s	TRANSISTOR 2SJ176
Q4	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q5	8-729-019-03	s	TRANSISTOR 2SB1202FA-T-TL
Q6	8-729-019-03	s	TRANSISTOR 2SB1202FA-T-TL
Q7	8-729-141-75	s	TRANSISTOR 2SD596DV345
Q8	8-729-141-75	s	TRANSISTOR 2SD596DV345
Q9	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q151	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q152	8-729-117-32	s	TRANSISTOR 2SC4177
Q153	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q401	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q402	8-729-117-32	s	TRANSISTOR 2SC4177
Q403-409	8-729-143-79	s	TRANSISTOR 2SK738
Q501	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q502	8-729-029-14	s	TRANSISTOR DTC144EUA-T106

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Ref. No. or Q'ty	Part No.	SP	Description
Q503	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q602	8-729-117-32	s	TRANSISTOR 2SC4177
Q603	8-729-019-03	s	TRANSISTOR 2SB1202FA-T-TL
Q604	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q605	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q606	8-729-807-16	s	TRANSISTOR 2SD1621
Q607	8-729-019-03	s	TRANSISTOR 2SB1202FA-T-TL
Q608	8-729-118-56	s	TRANSISTOR 2SK852-X2
Q609	8-729-020-93	s	TRANSISTOR 2SC2982C-TE12L
Q610	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q611	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q612	8-729-019-03	s	TRANSISTOR 2SB1202FA-T-TL
Q613	8-729-019-03	s	TRANSISTOR 2SB1202FA-T-TL
Q614	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q615	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q616	8-729-117-32	s	TRANSISTOR 2SC4177
Q617	8-729-117-32	s	TRANSISTOR 2SC4177
Q618-625	8-729-019-03	s	TRANSISTOR 2SB1202FA-T-TL
Q626	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q627	8-729-117-32	s	TRANSISTOR 2SC4177
Q628	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q629	8-729-117-32	s	TRANSISTOR 2SC4177
Q630	8-729-030-03	s	TRANSISTOR DTC144ESA-TP
Q801	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q802	8-729-109-44	s	TRANSISTOR 2SK94
Q851	8-729-117-32	s	TRANSISTOR 2SC4177
Q852	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q853	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q854	8-729-824-34	s	TRANSISTOR 2SJ187
Q855	8-729-030-95	s	TRANSISTOR 2SK2151-TD
Q856	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q901	8-729-117-32	s	TRANSISTOR 2SC4177
Q902	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q903	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q904	8-729-824-34	s	TRANSISTOR 2SJ187
Q905	8-729-030-95	s	TRANSISTOR 2SK2151-TD
Q941	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q942	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q943	8-729-824-34	s	TRANSISTOR 2SJ187
Q944	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q945	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q961	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q962	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q963	8-729-824-34	s	TRANSISTOR 2SJ187
Q964	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q965	8-729-209-07	s	TRANSISTOR 2SC4213-B
Q966	8-729-027-56	s	TRANSISTOR DTC143TKA-T146
R1	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R2	1-249-406-11	s	CARBON 120 5% 1/4W
R3	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R4	1-216-039-00	s	METAL, CHIP 390 5% 1/10W
R5	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R6	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R7	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R8	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R9	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R14	1-216-109-00	s	METAL, CHIP 330K 5% 1/10W
R17	1-218-179-11	s	METAL, CHIP 10M 5% 1/10W

Ref. No. or Q'ty	Part No.	SP	Description
R18	1-218-179-11	s	METAL, CHIP 10M 5% 1/10W
R25	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R27-34	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R36	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R37-41	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R42	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R43	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R44	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R45	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R46	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R47	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R48	1-218-179-11	s	METAL, CHIP 10M 5% 1/10W
R49	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R50	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R51	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R52	1-216-113-00	s	METAL, CHIP 470K 5% 1/10W
R53	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R54	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R55	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R56	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R57	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R58	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R59	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R60	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R61	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R69	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R70	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R71	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R72	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R73	1-208-812-11	s	METAL, CHIP 18K 0.5% 1/10W
R74	1-208-812-11	s	METAL, CHIP 18K 0.5% 1/10W
R75	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R76	1-216-662-11	s	METAL, CHIP 3K 0.5% 1/10W
R77	1-208-824-11	s	METAL, CHIP 56K 0.5% 1/10W
R78	1-208-824-11	s	METAL, CHIP 56K 0.5% 1/10W
R81	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R82	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R83	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R84	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R85	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R86	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R87	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R88	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R89	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R90	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R91	1-208-817-11	s	METAL, CHIP 30K 0.5% 1/10W
R92	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R93	1-216-085-00	s	METAL, CHIP 33K 5% 1/10W
R94	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R95	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R96	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R97	1-218-759-11	s	METAL, CHIP 200K 0.5% 1/10W
R98	1-216-684-11	s	METAL, CHIP 24K 0.5% 1/10W
R99	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R100	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R101	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R102	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R111	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R112	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R113	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R114	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R115	1-216-003-11	s	METAL, CHIP 12 5% 1/10W
R116	1-216-003-11	s	METAL, CHIP 12 5% 1/10W
R121	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R127	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R128	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W [for NTSC]
R129	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W [for PAL]
R130	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R131	1-216-133-00	s	METAL, CHIP 3.3M 5% 1/10W
R134	1-216-133-00	s	METAL, CHIP 3.3M 5% 1/10W
R135	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R136	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R137	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R138	1-216-129-00	s	METAL, CHIP 2.2M 5% 1/10W
R139	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R151-158	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R208	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R209	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R210	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R211	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R215	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R216	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R217	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R218	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R219	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R220	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R221	1-216-037-00	s	METAL, CHIP 330 5% 1/10W
R222	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W
R223	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-247-855-11	s	CARBON 10K 5% 1/4W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R252	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W [for NTSC]
R253	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W [for PAL]
R256	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R258	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R260	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R261	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R262	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R301	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R302	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R303	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R304	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R311	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R312	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R313	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R314	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R315	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R316	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W

Ref. No. or Q'ty	Part No.	SP	Description
R317	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R318	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R321	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R339	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R340	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R351	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R352	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R353	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R354	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R355	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R356	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R357	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R401	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R402	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R407-414	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R415	1-216-103-00	s	METAL, CHIP 180k 5% 1/10W
R416	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R417	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R418	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R419	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R420	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R421	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R423	1-216-103-00	s	METAL, CHIP 180k 5% 1/10W
R425	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R426	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R427	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R428	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R429	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R436	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R437	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R438	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R439	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R440	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R441	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R442	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W
R443	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W
R444	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R445	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R446	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R463	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R464-470	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R471	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R472	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R473	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R474-480	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R481-487	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R488	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R489	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R490	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R491	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R492	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R493	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W

Ref. No. or Q'ty	Part No.	SP	Description
R494	1-216-089-00	s	METAL, CHIP 47K 5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-247-871-11	s	CARBON 47K 5% 1/4W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R501-506	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R508	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R509	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R510	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R511	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R512	1-216-105-00	s	METAL, CHIP 220K 5% 1/10W
R513	1-216-105-00	s	METAL, CHIP 220K 5% 1/10W
R517	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R519	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R521	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R522	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R523	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R526	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R527	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R528	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R530	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R534	1-216-105-00	s	METAL, CHIP 220K 5% 1/10W
R535	1-216-105-00	s	METAL, CHIP 220K 5% 1/10W
R536	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R538	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R540	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R541	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R542	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R543	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R580	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R581	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R582	1-247-847-11	s	CARBON 4.7K 5% 1/4W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R583	1-247-847-11	s	CARBON 4.7K 5% 1/4W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R601	1-218-768-11	s	METAL 470K 0.5% 1/10W
R602	1-218-768-11	s	METAL 470K 0.5% 1/10W
R603	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R604	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R605	1-218-770-11	s	METAL, CHIP 560K 0.50% 1/10W
R606	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R607	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R608	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W
R609	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R610	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W
R611	1-216-698-11	s	METAL, CHIP 91K 0.5% 1/10W
R612	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R613	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R614	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R615	1-216-682-11	s	METAL, CHIP 20K 0.5% 1/10W
R616	1-218-756-11	s	METAL, CHIP 150K 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SP	Description
R617	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R618	1-218-756-11	s	METAL, CHIP 150K 0.5% 1/10W
R619	1-216-697-11	s	METAL, CHIP 82K 0.5% 1/10W
R620	1-218-760-11	s	METAL, CHIP 220K 0.5% 1/10W
R621	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R622	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W
R623	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R624	1-218-236-11	s	METAL, CHIP 1 10% 1/4W
R625	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W
R626	1-218-236-11	s	METAL, CHIP 1 10% 1/4W
R627	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R628	1-218-760-11	s	METAL, CHIP 220K 0.5% 1/10W
R629	1-218-236-11	s	METAL, CHIP 1 10% 1/4W
R630	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R631	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R632	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R633	1-216-697-11	s	METAL, CHIP 82K 0.5% 1/10W
R634	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R635	1-218-236-11	s	METAL, CHIP 1 10% 1/4W
R636	1-218-236-11	s	METAL, CHIP 1 10% 1/4W
R637	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R638	1-218-236-11	s	METAL, CHIP 1 10% 1/4W
R639	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R640	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R641	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R642	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R643	1-216-067-00	s	METAL, CHIP 5.6K 5% 1/10W
R644	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R645	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R646	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R647	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R648	1-218-236-11	s	METAL, CHIP 1 10% 1/4W
R649	1-218-236-11	s	METAL, CHIP 1 10% 1/4W
R650	1-218-236-11	s	METAL, CHIP 1 10% 1/4W
R651	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R652	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R653	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R654	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R655	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W
R656	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W
R657	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W
R658	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W
R659	1-216-695-11	s	METAL, CHIP 68K 0.5% 1/10W
R660	1-216-695-11	s	METAL, CHIP 68K 0.5% 1/10W
R661	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R662	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R663	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R664	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R665	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R666	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R667	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R668	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R669	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R670	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R671	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R672	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R673	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R674	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R675	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W

Ref. No. or Q'ty	Part No.	SP	Description
R676	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R677-683	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R684	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R685	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R686	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R687	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R688	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R689	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R690	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R691	1-218-760-11	s	METAL, CHIP 220K 0.5% 1/10W
R692	1-218-760-11	s	METAL, CHIP 220K 0.5% 1/10W
R693	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R694	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R695	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R696	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R697	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R698	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R699	1-218-760-11	s	METAL, CHIP 220K 0.5% 1/10W
R700	1-218-760-11	s	METAL, CHIP 220K 0.5% 1/10W
R701	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R702	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R703	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R704	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R705-710	1-218-236-11	s	METAL, CHIP 1 10% 1/4W
R711	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R712	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R713	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R714	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R715	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R716	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R717	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R718	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R719	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R720	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R721	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R722	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R723	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R724	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R725	1-216-085-00	s	METAL, CHIP 33K 5% 1/10W
R726	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R727	1-216-085-00	s	METAL, CHIP 33K 5% 1/10W
R728	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R729	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-247-855-11	s	CARBON 10K 5% 1/4W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R730	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R731	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]

Ref. No. or Q'ty	Part No.	SP	Description
R732	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R733	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
R801	1-216-295-00	s	RES, CHIP 0
R802	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R803	1-216-085-00	s	METAL, CHIP 33K 5% 1/10W
R804	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R805	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R806	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R807	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R808	1-216-105-00	s	METAL, CHIP 220K 5% 1/10W
R809	1-216-655-11	s	METAL, CHIP 1.5K 0.5% 1/10W
R810	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R811	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R812	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R813	1-208-799-11	s	METAL, CHIP 5.1K 0.5% 1/10W
R814	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R815	1-216-295-00	s	RES, CHIP 0
R816	1-216-295-00	s	RES, CHIP 0
R817	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R818	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R819	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R851	1-216-295-00	s	RES, CHIP 0
R852	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R853	1-216-295-00	s	RES, CHIP 0
R854	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R855	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R856	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R857	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R858	1-216-113-00	s	METAL, CHIP 470K 5% 1/10W
R859	1-216-655-11	s	METAL, CHIP 1.5K 0.5% 1/10W
R860	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R861	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R862	1-216-655-11	s	METAL, CHIP 1.5K 0.5% 1/10W
R863	1-218-756-11	s	METAL, CHIP 150K 0.5% 1/10W
R864	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R865	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R866	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R867	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R868	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R869	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R870	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W
R871	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R872	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R873	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R874	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R901	1-216-295-00	s	RES, CHIP 0
R902	1-216-295-00	s	RES, CHIP 0
R903	1-216-295-00	s	RES, CHIP 0
R904	1-216-101-00	s	METAL, CHIP 150K 5% 1/10W
R905	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R906	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R907	1-216-101-00	s	METAL, CHIP 150K 5% 1/10W
R908	1-216-113-00	s	METAL, CHIP 470K 5% 1/10W
R909	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W
R910	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R911	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R912	1-216-655-11	s	METAL, CHIP 1.5K 0.5% 1/10W
R913	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R914	1-218-756-11	s	METAL, CHIP 150K 0.5% 1/10W
R915	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R916	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R917	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R918	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R919	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R920	1-218-762-11	s	METAL, CHIP 270K 0.5% 1/10W
R921	1-218-762-11	s	METAL, CHIP 270K 0.5% 1/10W
R922	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R923	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R924	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R925	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R926	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R927	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R941	1-216-295-00	s	RES, CHIP 0
R942	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W
R943	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R944	1-216-111-00	s	METAL, CHIP 390K 5% 1/10W
R945	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R946	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W
R947	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W
R948	1-216-298-00	s	METAL 2.2 5% 1/10W
R949	1-216-298-00	s	METAL 2.2 5% 1/10W
R950	1-216-298-00	s	METAL 2.2 5% 1/10W
R951	1-216-298-00	s	METAL 2.2 5% 1/10W
R961	1-216-295-00	s	RES, CHIP 0
R962	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W
R963	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R964	1-216-111-00	s	METAL, CHIP 390K 5% 1/10W
R965	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R966	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R967	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R968	1-216-298-00	s	METAL 2.2 5% 1/10W
R969	1-216-298-00	s	METAL 2.2 5% 1/10W
R970	1-216-295-00	s	RES, CHIP 0
R971	1-216-298-00	s	METAL 2.2 5% 1/10W
R972	1-216-298-00	s	METAL 2.2 5% 1/10W
RB1	1-239-308-11	s	RESISTOR BLOCK, CHIP 47kx8
RB2	1-239-308-11	s	RESISTOR BLOCK, CHIP 47kx8
RB3	1-236-908-11	s	NETWORK RESISTOR (CHIP) 10K

(SST-3/3P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RB4	1-236-908-11	s	NETWORK RESISTOR (CHIP) 10K
RB101	1-239-286-11	s	NETWORK RESISTOR (CHIP) 22K
RB102	1-239-286-11	s	NETWORK RESISTOR (CHIP) 22K
RB151-163	1-239-308-11	s	RESISTOR BLOCK, CHIP 47kx8
RB301-305	1-239-308-11	s	RESISTOR BLOCK, CHIP 47kx8
RB401	1-236-908-11	s	NETWORK RESISTOR (CHIP) 10K
RB402	1-239-430-11	s	NETWORK RESISTOR (CHIP) 4.7K
RB403	1-239-430-11	s	NETWORK RESISTOR (CHIP) 4.7K
RB404	1-239-308-11	s	RESISTOR BLOCK, CHIP 47kx8
RB405	1-239-308-11	s	RESISTOR BLOCK, CHIP 47kx8
RB406	1-239-308-11	s	RESISTOR BLOCK, CHIP 47kx8
RB501	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB502	1-236-904-11	s	NETWORK RESISTOR (CHIP) 1.0K
RB503	1-239-430-11	s	NETWORK RESISTOR (CHIP) 4.7K
RB504	1-239-430-11	s	NETWORK RESISTOR (CHIP) 4.7K
RB505	1-239-430-11	s	NETWORK RESISTOR (CHIP) 4.7K
RB506	1-236-904-11	s	NETWORK RESISTOR (CHIP) 1.0K
RB508	1-239-430-11	s	NETWORK RESISTOR (CHIP) 4.7K
RB509	1-239-430-11	s	NETWORK RESISTOR (CHIP) 4.7K
RB510	1-239-430-11	s	NETWORK RESISTOR (CHIP) 4.7K
RB511	1-239-430-11	s	NETWORK RESISTOR (CHIP) 4.7K
RB512	1-239-305-11	s	RESISTOR BLOCK, CHIP 4.7kx8
RB513	1-236-907-11	s	NETWORK RESISTOR (CHIP) 100K
RB514	1-239-430-11	s	NETWORK RESISTOR (CHIP) 4.7K
RV1	1-237-035-11	s	RES, ADJ METAL 5K
RV2	1-237-035-11	s	RES, ADJ METAL 5K
RV3	1-238-785-21	s	RES, ADJ CERMET 2K [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
RV401	1-241-520-11	s	RES, VAR CARBON 10K
RV402	1-237-038-11	s	RES, ADJ METAL 50K
RY961	1-515-716-11	s	RELAY (TQ2-5V)
S1	1-553-856-00	s	SWITCH, TACTILE
S151	1-692-536-11	s	SWITCH, DIP 8-CKT
S501	1-692-032-21	s	SWITCH, PUSH
S502	1-692-032-21	s	SWITCH, PUSH
S503	1-692-881-21	s	SWITCH, SLIDE
X1	1-578-741-11	s	CRYSTAL 31.25 KHz
X2	1-760-488-11	s	CRYSTAL 3.68640000MHz
X111	1-567-160-21	s	RESONATOR, CERAMIC 4.19MHz
X112	1-578-742-11	s	CRYSTAL 31.4685KHz [for NTSC]
	1-578-741-11	s	CRYSTAL 31.25 KHz [for PAL]
X113	1-579-993-21	s	CRYSTAL 13.50MHz
X401	1-579-996-21	s	RESONATOR, CERAMIC 20.00MHz

TR-57 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6754-272-A	o	MOUNTED CIRCUIT BOARD, TR-57
4pcs	1-564-831-11	o	CONTACT, FEMALE
4pcs	1-569-193-11	o	CONTACT, FEMALE
CN1	1-562-737-11	o	HOUSING, 4P
CN954	1-569-197-41	o	HOUSING, 4P
PD1	8-745-001-07	s	DME DM-230-1

VPR-12/12P BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8276-914-A	o	MOUNTED CIRCUIT BOARD, VPR-12 [for NTSC]
	A-8276-942-A	o	MOUNTED CIRCUIT BOARD, VPR-12P [for PAL]
C1	1-163-033-00	s	CERAMIC 0.022uF 50V
C2	1-163-033-00	s	CERAMIC 0.022uF 50V
C3	1-163-033-00	s	CERAMIC 0.022uF 50V
C4	1-163-033-00	s	CERAMIC 0.022uF 50V
C5	1-163-237-11	s	CERAMIC, CHIP 27PF 5% 50V [for NTSC]
	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V [for PAL]
C7	1-127-517-11	s	ALMUN SOLID 150uF 20% 16V
C8	1-127-517-11	s	ALMUN SOLID 150uF 20% 16V
C9	1-163-033-00	s	CERAMIC 0.022uF 50V
C10	1-127-517-11	s	ALMUN SOLID 150uF 20% 16V
C11	1-163-033-00	s	CERAMIC 0.022uF 50V
C12	1-127-517-11	s	ALMUN SOLID 150uF 20% 16V
C13	1-163-121-00	s	CERAMIC, CHIP 150PF 5% 50V [for NTSC]
	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V [for PAL]
C14	1-163-033-00	s	CERAMIC 0.022uF 50V
C15	1-163-033-00	s	CERAMIC 0.022uF 50V
C16	1-163-033-00	s	CERAMIC 0.022uF 50V
C17	1-163-033-00	s	CERAMIC 0.022uF 50V
C18	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C19	1-163-249-11	s	CERAMIC, CHIP 82pF 5% 50V [for NTSC]
	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V [for PAL]
C20	1-163-237-11	s	CERAMIC, CHIP 27PF 5% 50V [for NTSC]
	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V [for PAL]
C21	1-163-237-11	s	CERAMIC, CHIP 27PF 5% 50V [for NTSC]
	1-163-235-11	s	CERAMIC, CHIP 22PF 5% 50V [for PAL]
C22	1-163-253-11	s	CERAMIC, CHIP 120PF 5% 50V [for NTSC]
	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V [for PAL]
C23	1-163-133-00	s	CERAMIC, CHIP 470PF 5% 50V
C24	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
C25	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V [for NTSC]
	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V [for PAL]
C26	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V [for NTSC]
	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V [for PAL]
C27	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
C28	1-127-517-11	s	ALMUN SOLID 150uF 20% 16V
C29	1-127-517-11	s	ALMUN SOLID 150uF 20% 16V
C30	1-163-237-11	s	CERAMIC, CHIP 27PF 5% 50V [for NTSC]
	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V [for PAL]
C31	1-127-517-11	s	ALMUN SOLID 150uF 20% 16V
C32	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C33	1-163-033-00	s	CERAMIC 0.022uF 50V
C34	1-163-033-00	s	CERAMIC 0.022uF 50V
C35	1-163-033-00	s	CERAMIC 0.022uF 50V

(VPR-12/12P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C36	1-163-033-00	s	CERAMIC 0.022uF 50V
C38	1-163-033-00	s	CERAMIC 0.022uF 50V
C39	1-163-033-00	s	CERAMIC 0.022uF 50V
C40	1-163-033-00	s	CERAMIC 0.022uF 50V
C41	1-104-559-11	s	FILM, CHIP 0.047uF 5% 16V
C42	1-163-033-00	s	CERAMIC 0.022uF 50V
C43	1-163-033-00	s	CERAMIC 0.022uF 50V
C44	1-163-033-00	s	CERAMIC 0.022uF 50V
C45	1-135-070-00	s	TANTALUM, CHIP 0.1uF 10% 35V
C46	1-135-070-00	s	TANTALUM, CHIP 0.1uF 10% 35V
C47	1-135-070-00	s	TANTALUM, CHIP 0.1uF 10% 35V
C48	1-135-072-21	s	TANTALUM, CHIP 0.22uF 10% 35V
C49	1-135-072-21	s	TANTALUM, CHIP 0.22uF 10% 35V
C50	1-135-072-21	s	TANTALUM, CHIP 0.22uF 10% 35V
C51	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C52	1-163-253-11	s	CERAMIC, CHIP 120PF 5% 50V [for NTSC]
	1-163-121-00	s	CERAMIC, CHIP 150PF 5% 50V [for PAL]
C53	1-163-038-00	s	CERAMIC 0.1uF 25V
C54	1-163-033-00	s	CERAMIC 0.022uF 50V
C55	1-163-033-00	s	CERAMIC 0.022uF 50V
C56	1-163-033-00	s	CERAMIC 0.022uF 50V
C57	1-163-033-00	s	CERAMIC 0.022uF 50V
C58	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C59	1-163-033-00	s	CERAMIC 0.022uF 50V
C60	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C61	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C62	1-163-033-00	s	CERAMIC 0.022uF 50V
C63	1-163-033-00	s	CERAMIC 0.022uF 50V
C64	1-109-894-11	s	ELECT 33uF 20% 10V
C65	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C66	1-163-033-00	s	CERAMIC 0.022uF 50V
C67	1-163-033-00	s	CERAMIC 0.022uF 50V
C68	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C69	1-163-033-00	s	CERAMIC 0.022uF 50V
C70	1-163-038-00	s	CERAMIC 0.1uF 25V
C71	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C72	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C73	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C74	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C75	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C76	1-163-038-00	s	CERAMIC 0.1uF 25V
C77	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C78	1-163-038-00	s	CERAMIC 0.1uF 25V
C79	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C80-85	1-163-038-00	s	CERAMIC 0.1uF 25V
C86-93	1-163-033-00	s	CERAMIC 0.022uF 50V
C94	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C95	1-163-033-00	s	CERAMIC 0.022uF 50V
C96	1-163-033-00	s	CERAMIC 0.022uF 50V
C97	1-135-160-21	s	TANTALUM 15uF 20% 16V
C98	1-109-894-11	s	ELECT 33uF 20% 10V
C99	1-163-033-00	s	CERAMIC 0.022uF 50V
C100	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C101	1-163-038-00	s	CERAMIC 0.1uF 25V
C102	1-163-033-00	s	CERAMIC 0.022uF 50V
C103	1-163-033-00	s	CERAMIC 0.022uF 50V
C104	1-163-033-00	s	CERAMIC 0.022uF 50V

(VPR-12/12P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C105	1-163-243-11	s	CERAMIC, CHIP 47PF 5% 50V
C106	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C107	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C108	1-163-038-00	s	CERAMIC 0.1uF 25V
C109	1-163-038-00	s	CERAMIC 0.1uF 25V
C110	1-163-033-00	s	CERAMIC 0.022uF 50V
C111	1-163-033-00	s	CERAMIC 0.022uF 50V
C112	1-163-033-00	s	CERAMIC 0.022uF 50V
C113	1-104-608-11	s	ELECT, CHIP 33uF 20% 6.3V
C114	1-104-608-11	s	ELECT, CHIP 33uF 20% 6.3V
C115	1-163-033-00	s	CERAMIC 0.022uF 50V
C116	1-163-033-00	s	CERAMIC 0.022uF 50V
C117	1-163-033-00	s	CERAMIC 0.022uF 50V
C118	1-163-033-00	s	CERAMIC 0.022uF 50V
C119	1-163-038-00	s	CERAMIC 0.1uF 25V
C120	1-163-038-00	s	CERAMIC 0.1uF 25V
C121-125	1-104-608-11	s	ELECT, CHIP 33uF 20% 6.3V
C126	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C127-131	1-163-038-00	s	CERAMIC 0.1uF 25V
C132	1-163-033-00	s	CERAMIC 0.022uF 50V
C133	1-163-033-00	s	CERAMIC 0.022uF 50V
C134	1-109-894-11	s	ELECT 33uF 20% 10V
C200	1-163-033-00	s	CERAMIC 0.022uF 50V
C201	1-163-033-00	s	CERAMIC 0.022uF 50V
C202	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C203	1-163-033-00	s	CERAMIC 0.022uF 50V
C204	1-163-033-00	s	CERAMIC 0.022uF 50V
C205	1-163-033-00	s	CERAMIC 0.022uF 50V
C206	1-163-033-00	s	CERAMIC 0.022uF 50V
C207	1-127-517-11	s	ALMUN SOLID 150uF 20% 16V
C208	1-127-517-11	s	ALMUN SOLID 150uF 20% 16V
C209	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C210	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C211	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C213	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C214	1-127-517-11	s	ALMUN SOLID 150uF 20% 16V
C215	1-163-237-11	s	CERAMIC, CHIP 27PF 5% 50V [for NTSC]
	1-163-245-11	s	CERAMIC, CHIP 56PF 5% 50V [for PAL]
C216	1-163-033-00	s	CERAMIC 0.022uF 50V
C217	1-163-033-00	s	CERAMIC 0.022uF 50V
C218	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C219	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
C220-224	1-163-033-00	s	CERAMIC 0.022uF 50V
C225	1-135-070-00	s	TANTALUM, CHIP 0.1uF 10% 35V
C226	1-163-033-00	s	CERAMIC 0.022uF 50V
C227	1-135-072-21	s	TANTALUM, CHIP 0.22uF 10% 35V
C228	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C229	1-163-033-00	s	CERAMIC 0.022uF 50V
C230	1-163-033-00	s	CERAMIC 0.022uF 50V
C231	1-163-033-00	s	CERAMIC 0.022uF 50V
C232	1-135-216-11	s	TANTALUM, CHIP 10uF 20% 10V
C233	1-163-033-00	s	CERAMIC 0.022uF 50V
C234	1-163-033-00	s	CERAMIC 0.022uF 50V
C235	1-163-033-00	s	CERAMIC 0.022uF 50V
C236	1-163-033-00	s	CERAMIC 0.022uF 50V
C237	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C238	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C239	1-163-033-00	s	CERAMIC 0.022uF 50V

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Ref. No. or Q'ty	Part No.	SP	Description
C240	1-163-033-00	s	CERAMIC 0.022uF 50V
C241	1-163-239-11	s	CERAMIC, CHIP 33PF 5% 50V
C242	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
C243	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C244	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C245	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C246	1-163-033-00	s	CERAMIC 0.022uF 50V
C247	1-163-133-00	s	CERAMIC, CHIP 470PF 5% 50V
C248	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C250	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C251	1-163-133-00	s	CERAMIC, CHIP 470PF 5% 50V
C252	1-163-033-00	s	CERAMIC 0.022uF 50V
C253	1-163-263-11	s	CERAMIC, CHIP 330PF 5% 50V
C254	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C255	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
C256	1-163-125-00	s	CERAMIC, CHIP 220PF 5% 50V
C257	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C258	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C259	1-163-033-00	s	CERAMIC 0.022uF 50V
C260	1-163-033-00	s	CERAMIC 0.022uF 50V
C261	1-163-033-00	s	CERAMIC 0.022uF 50V
C262	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C263	1-163-033-00	s	CERAMIC 0.022uF 50V
C264	1-163-033-00	s	CERAMIC 0.022uF 50V
C265	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C266	1-163-033-00	s	CERAMIC 0.022uF 50V
C267	1-163-033-00	s	CERAMIC 0.022uF 50V
C268	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C269	1-163-033-00	s	CERAMIC 0.022uF 50V
C270	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C272	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C273	1-163-033-00	s	CERAMIC 0.022uF 50V
C274	1-163-033-00	s	CERAMIC 0.022uF 50V
C275	1-163-033-00	s	CERAMIC 0.022uF 50V
C276	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C277	1-163-033-00	s	CERAMIC 0.022uF 50V
C278	1-109-894-11	s	ELECT 33uF 20% 10V
C279	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C280	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C281	1-163-033-00	s	CERAMIC 0.022uF 50V
C282	1-163-033-00	s	CERAMIC 0.022uF 50V
C283	1-163-033-00	s	CERAMIC 0.022uF 50V
C284	1-163-038-00	s	CERAMIC 0.1uF 25V
C285	1-163-038-00	s	CERAMIC 0.1uF 25V
C286	1-163-038-00	s	CERAMIC 0.1uF 25V
C287	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C288	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C289	1-163-033-00	s	CERAMIC 0.022uF 50V
C290	1-163-038-00	s	CERAMIC 0.1uF 25V
C291	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C292	1-163-033-00	s	CERAMIC 0.022uF 50V
C293	1-162-718-11	s	CERAMIC 220PF 1% 50V [for NTSC]
	1-162-714-11	s	CERAMIC 150PF 1% 50V [for PAL]
C294	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C295	1-163-033-00	s	CERAMIC 0.022uF 50V
C296	1-163-033-00	s	CERAMIC 0.022uF 50V
C297	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C298	1-163-033-00	s	CERAMIC 0.022uF 50V

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Ref. No. or Q'ty	Part No.	SP	Description
C299	1-163-033-00	s	CERAMIC 0.022uF 50V
C300	1-163-033-00	s	CERAMIC 0.022uF 50V
C301	1-163-227-11	s	CERAMIC, CHIP 10PF 5% 50V
C302	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C303	1-163-033-00	s	CERAMIC 0.022uF 50V
C304	1-163-033-00	s	CERAMIC 0.022uF 50V
C305	1-163-033-00	s	CERAMIC 0.022uF 50V
C306	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C307-311	1-163-033-00	s	CERAMIC 0.022uF 50V
C312	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C313	1-163-033-00	s	CERAMIC 0.022uF 50V
C314	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C315	1-163-033-00	s	CERAMIC 0.022uF 50V
C317	1-163-033-00	s	CERAMIC 0.022uF 50V
C318	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C319	1-163-033-00	s	CERAMIC 0.022uF 50V
C320	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C321	1-163-033-00	s	CERAMIC 0.022uF 50V
C322	1-163-033-00	s	CERAMIC 0.022uF 50V
C323	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C324	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C325	1-163-033-00	s	CERAMIC 0.022uF 50V
C326	1-163-033-00	s	CERAMIC 0.022uF 50V
C327	1-164-004-11	s	CERAMIC, CHIP 0.1uF 10% 25V
C328	1-163-033-00	s	CERAMIC 0.022uF 50V
C329	1-163-033-00	s	CERAMIC 0.022uF 50V
C330	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C331-340	1-163-033-00	s	CERAMIC 0.022uF 50V
C341	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C342	1-104-608-11	s	ELECT, CHIP 33uF 20% 6.3V
C343	1-104-608-11	s	ELECT, CHIP 33uF 20% 6.3V
C344	1-104-608-11	s	ELECT, CHIP 33uF 20% 6.3V
C345	1-107-686-11	s	TANTALUM, CHIP 4.7uF 20% 16V
C347	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C348	1-163-038-00	s	CERAMIC 0.1uF 25V
C349	1-163-038-00	s	CERAMIC 0.1uF 25V
C350	1-109-894-11	s	ELECT 33uF 20% 10V
C360	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-162-710-11	s	CERAMIC 100PF 1% 50V [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
C500	1-127-516-11	s	ALUMN SOLID 220uF 20% 10V
C501	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C502-506	1-163-033-00	s	CERAMIC 0.022uF 50V
C507	1-163-038-00	s	CERAMIC 0.1uF 25V
C508	1-135-070-00	s	TANTALUM, CHIP 0.1uF 10% 35V
C509-513	1-163-033-00	s	CERAMIC 0.022uF 50V
C514	1-135-157-21	s	TANTALUM, CHIP 10uF 10% 6.3V
C515	1-163-033-00	s	CERAMIC 0.022uF 50V
C516	1-163-033-00	s	CERAMIC 0.022uF 50V
C517	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C518	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C519	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C520	1-163-092-00	s	CERAMIC 9PF 0.25PF 50V [for NTSC]
	1-163-089-00	s	CERAMIC, CHIP 6PF 50V [for PAL]

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Ref. No. or Q'ty	Part No.	SP	Description
C521	1-104-541-11	s	FILM, CHIP 0.0015uF 5% 50V [for NTSC]
	1-164-695-11	s	CERAMIC 2200PF 5% 50V [for PAL]
C522	1-163-257-11	s	CERAMIC, CHIP 180PF 5% 50V
C523	1-163-220-11	s	CERAMIC, CHIP 3PF 50V
C524	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C525	1-135-210-11	s	TANTALUM, CHIP 4.7uF 20% 10V
C526	1-135-210-11	s	TANTALUM, CHIP 4.7uF 20% 10V
C527	1-135-091-00	s	TANTALUM, CHIP 1uF 20% 16V
C528-532	1-163-033-00	s	CERAMIC 0.022uF 50V
C534	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C535	1-163-251-11	s	CERAMIC, CHIP 100PF 5% 50V
C536	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C537	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C538	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C539	1-163-033-00	s	CERAMIC 0.022uF 50V
C540	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C541	1-163-033-00	s	CERAMIC 0.022uF 50V
C542	1-163-033-00	s	CERAMIC 0.022uF 50V
C700-704	1-163-033-00	s	CERAMIC 0.022uF 50V
C705	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C706	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C707	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C708	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C709	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C710-714	1-163-033-00	s	CERAMIC 0.022uF 50V
C715	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C716	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C717	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C718	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C719	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C720-724	1-163-033-00	s	CERAMIC 0.022uF 50V
C725	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C726	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C727	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C728	1-126-396-11	s	ELECT, CHIP 47uF 20% 16V
C729	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C730	1-163-033-00	s	CERAMIC 0.022uF 50V
C731	1-163-033-00	s	CERAMIC 0.022uF 50V
C732	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C733	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C740	1-124-234-00	s	ELECT 22uF 20% 16V
CN201	1-774-265-11	s	CONNECTOR, BOARD TO BOARD 30P
CN202	1-774-265-11	s	CONNECTOR, BOARD TO BOARD 30P
CN203	1-774-264-11	s	CONNECTOR, BOARD TO BOARD 26P
CN204	1-774-262-11	s	CONNECTOR, BOARD TO BOARD 18P
CN209	1-566-767-11	o	CONNECTOR 12P, MALE
CN210	1-566-763-11	o	CONNECTOR 8P, MAEL
CP200	1-760-277-11	s	VCO, CRYSTAL 28.63636000MHz [for NTSC]
	1-760-263-11	s	VCO, CRYSTAL 35.46895000MHz [for PAL]
D1	8-719-157-11	s	DIODE RD3.3M-B
D2	8-719-157-11	s	DIODE RD3.3M-B
D3	8-719-157-11	s	DIODE RD3.3M-B
D4	8-719-941-23	s	DIODE DA204U
D5	8-719-941-23	s	DIODE DA204U

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Ref. No. or Q'ty	Part No.	SP	Description
D10	8-719-105-28	s	DIODE RD2.4M-B
			[for UC:S/N 10001 through 10090]
			[for J :S/N 10001 through 10065]
			[for SY:S/N 10001 through 10115]
D200	8-719-023-69	s	DIODE SB007T03Q
D201	8-719-023-69	s	DIODE SB007T03Q
D202	8-719-023-69	s	DIODE SB007T03Q
D203	8-719-157-11	s	DIODE RD3.3M-B
D204	8-719-123-82	s	DIODE 1SS303
D205	8-719-023-69	s	DIODE SB007T03Q [for PAL]
D206	8-719-123-82	s	DIODE 1SS303
D207	8-719-941-23	s	DIODE DA204U
D208	8-719-123-82	s	DIODE 1SS303 [for PAL]
D500	8-719-023-69	s	DIODE SB007T03Q
D501	8-719-023-69	s	DIODE SB007T03Q [for PAL]
D700	8-719-157-23	s	DIODE RD4.7M-B
D701	8-719-157-36	s	DIODE RD6.8M-B
D702	8-719-157-23	s	DIODE RD4.7M-B
D703	8-719-157-36	s	DIODE RD6.8M-B
D704	8-719-157-36	s	DIODE RD6.8M-B
FB1	1-543-309-21	s	BEAD, FERRITE
FB2	1-543-309-21	s	BEAD, FERRITE
FB3	1-543-309-21	s	BEAD, FERRITE
FB200	1-543-309-21	s	BEAD, FERRITE
FB201	1-543-309-21	s	BEAD, FERRITE
FB202	1-543-309-21	s	BEAD, FERRITE
FL1	1-233-432-11	s	FILTER, LOW-PASS
FL2	1-233-432-11	s	FILTER, LOW-PASS
FL3	1-233-433-11	s	FILTER, LOW-PASS
FL200	1-239-069-11	s	FILTER, LOW-PASS
FL500	1-239-931-11	s	FILTER, LOW-PASS
IC1	8-759-987-27	s	IC LM1881M
IC2	8-759-185-90	s	IC TC74VHC221AF(EL)
IC3	8-759-030-16	s	IC MC34182M
IC4	8-759-054-61	s	IC CLC505AJE
IC5	8-759-014-29	s	IC MC34184M
IC6	8-759-014-29	s	IC MC34184M
IC7	8-759-014-29	s	IC MC34184M
IC8	8-759-234-77	s	IC TC4S66F
IC9	8-759-234-77	s	IC TC4S66F
IC10	8-759-234-77	s	IC TC4S66F
IC11	8-759-702-08	s	IC NJM360M
IC12	8-759-702-08	s	IC NJM360M
IC13	8-759-186-56	s	IC TC74VHC174F
IC14	8-759-030-61	s	IC TL431CM
IC15	8-759-998-98	s	IC LM358D
IC16	8-759-081-42	s	IC TC74VHC00F
IC17	8-759-030-16	s	IC MC34182M
IC18	8-752-376-32	s	IC CXD2310AR
			[for UC:S/N 10091 and higher]
			[for J :S/N 10066 and higher]
			[for SY:S/N 10116 and higher]
	8-752-358-04	s	IC CXD2301R
			[for UC:S/N 10001 through 10090]
			[for J :S/N 10001 through 10065]
			[for SY:S/N 10001 through 10115]

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Ref. No. or Q'ty	Part No.	SP	Description
IC19	8-752-376-32	s	IC CXD2310AR
			[for UC:S/N 10091 and higher]
			[for J :S/N 10066 and higher]
			[for SY:S/N 10116 and higher]
	8-752-358-04	s	IC CXD2301R
			[for UC:S/N 10001 through 10090]
			[for J :S/N 10001 through 10065]
			[for SY:S/N 10001 through 10115]
IC21	8-759-186-53	s	IC TC74VHC163F
IC22	8-759-147-05	s	IC UPD42101G-3
IC23	8-759-147-05	s	IC UPD42101G-3
IC24	8-759-147-05	s	IC UPD42101G-3
IC25	8-759-031-84	s	IC TC7S04F
IC26	8-759-175-27	s	IC TC74VHC574F
IC27	8-759-175-27	s	IC TC74VHC574F
IC28	8-759-175-27	s	IC TC74VHC574F
IC29	8-759-175-27	s	IC TC74VHC574F
IC30	8-759-940-45	s	IC S-8054HN-CB
IC31	8-759-186-56	s	IC TC74VHC174F
IC32	8-759-186-56	s	IC TC74VHC174F
IC33	8-759-174-16	s	IC TC74VHC244F
IC34	8-759-710-88	s	IC NJM431U
IC36	8-759-030-61	s	IC TL431CM
IC37	8-759-186-60	s	IC TC74VHC240F
IC38	8-759-186-56	s	IC TC74VHC174F
IC40	8-752-376-32	s	IC CXD2310AR
			[for UC:S/N 10091 and higher]
			[for J :S/N 10066 and higher]
			[for SY:S/N 10116 and higher]
	8-752-358-04	s	IC CXD2301R
			[for UC:S/N 10001 through 10090]
			[for J :S/N 10001 through 10065]
			[for SY:S/N 10001 through 10115]
IC41	8-752-360-44	s	IC CXK1203AR
IC42	8-759-186-56	s	IC TC74VHC174F
IC43	8-759-186-56	s	IC TC74VHC174F
IC44	8-759-998-98	s	IC LM358D
IC45	8-759-998-98	s	IC LM358D
IC200	8-759-926-49	s	IC SN74HC245NS
IC201	8-759-186-63	s	IC TC74VHC245F
IC202	8-759-926-49	s	IC SN74HC245NS
IC203	8-759-097-51	s	IC MSM6524GS-VKR2
IC204	8-759-234-20	s	IC TC7S08F
IC205	8-759-031-84	s	IC TC7S04F
IC206	8-759-054-61	s	IC CLC505AJE
IC207	8-759-014-29	s	IC MC34184M
IC208	8-759-234-77	s	IC TC4S66F
IC209	8-759-030-16	s	IC MC34182M
IC210	8-759-030-16	s	IC MC34182M
IC211	8-759-987-27	s	IC LM1881M
IC212	8-759-185-90	s	IC TC74VHC221AF(EL)
IC213	8-759-185-90	s	IC TC74VHC221AF(EL)
IC214	8-759-186-39	s	IC TC74VHC74F
IC215	8-759-186-43	s	IC TC74VHC123AF
IC216	8-759-035-93	s	IC TC7S32F-TE85L
IC217	8-759-185-90	s	IC TC74VHC221AF(EL)
IC218	8-759-300-71	s	IC HD14053BFP
IC219	8-759-030-16	s	IC MC34182M
IC220	8-759-054-61	s	IC CLC505AJE

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Ref. No. or Q'ty	Part No.	SP	Description
IC221	8-752-052-77	s	IC CXA1450M
IC222	8-759-185-90	s	IC TC74VHC221AF(EL)
IC223	8-759-098-16	s	IC LT1227CS8-E2
IC224	8-759-702-08	s	IC NJM360M
IC225	8-759-186-53	s	IC TC74VHC163F
IC226	8-759-186-43	s	IC TC74VHC123AF
IC227	8-759-030-61	s	IC TL431CM
IC228	8-759-242-64	s	IC TC4W53F
IC229	8-759-998-98	s	IC LM358D
IC230	8-759-186-53	s	IC TC74VHC163F
IC231	8-759-233-66	s	IC TC74HCT04AF
IC232	8-752-376-32	s	IC CXD2310AR [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	8-752-358-04	s	IC CXD2301R [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
IC233	8-759-030-16	s	IC MC34182M
IC234	8-752-360-44	s	IC CXK1203AR
IC235	8-759-702-08	s	IC NJM360M
IC236	8-759-035-93	s	IC TC7S32F-TE85L
IC237	8-759-186-39	s	IC TC74VHC74F
IC238	8-752-375-22	s	IC CXD304-106Q
IC239	8-759-081-42	s	IC TC74VHC00F
IC240	8-759-175-92	s	IC CXD8819AQ
IC241	8-759-014-29	s	IC MC34184M
IC242	8-752-334-55	s	IC CXD1175M
IC243	8-759-196-97	s	IC TC7SH32FU-TE85R
IC244	8-759-186-63	s	IC TC74VHC245F
IC245	8-759-030-16	s	IC MC34182M
IC246	8-759-186-63	s	IC TC74VHC245F
IC247	8-759-186-63	s	IC TC74VHC245F
IC248	8-759-101-12	s	IC UPC311G2
IC249	8-759-940-45	s	IC S-8054HN-CB
IC500	8-759-030-61	s	IC TL431CM
IC501	8-759-186-63	s	IC TC74VHC245F
IC502	8-759-186-63	s	IC TC74VHC245F
IC503	8-759-030-16	s	IC MC34182M
IC504	8-752-356-44	s	IC CXD2306Q
IC505	8-759-185-90	s	IC TC74VHC221AF(EL)
IC506	8-759-054-61	s	IC CLC505AJE
IC507	8-759-054-61	s	IC CLC505AJE
IC508	8-759-030-16	s	IC MC34182M
IC509	8-759-242-64	s	IC TC4W53F
IC510	8-752-052-73	s	IC CXA1451M
IC511	8-752-052-73	s	IC CXA1451M
IC700	8-759-081-42	s	IC TC74VHC00F
IC701	8-759-045-17	s	IC NJM79L05UA
IC702	8-759-384-71	s	IC TL750L08CLP
L2	1-412-192-11	s	INDUCTOR 56uH [for NTSC]
	1-412-194-11	s	INDUCTOR 82uH [for PAL]
L200	1-410-393-11	s	INDUCTOR, CHIP 100uH
L201	1-410-393-11	s	INDUCTOR, CHIP 100uH
L500	1-412-166-11	s	INDUCTOR 0.18uH [for NTSC]
	1-412-164-11	s	INDUCTOR 0.12uH [for PAL]
L501	1-412-143-11	s	INDUCTOR 39uH

(VPR-12/12P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
L502	1-408-783-00	s	INDUCTOR, CHIP 33uH
L503	1-408-781-00	s	INDUCTOR, CHIP 22uH
L504	1-408-781-00	s	INDUCTOR, CHIP 22uH
L700	1-424-641-11	s	COIL, CHOKE 22uH
L701	1-424-641-11	s	COIL, CHOKE 22uH
L702	1-424-641-11	s	COIL, CHOKE 22uH
L704	1-424-641-11	s	COIL, CHOKE 22uH
Q1	8-729-028-91	s	TRANSISTOR DTA144EUA-T106 [for NTSC]
Q2	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q3	8-729-209-06	s	TRANSISTOR 2SC4213-A [for NTSC]
Q4	8-729-209-06	s	TRANSISTOR 2SC4213-A [for NTSC]
Q5-9	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q10	8-729-117-32	s	TRANSISTOR 2SC4177
Q11	8-729-117-32	s	TRANSISTOR 2SC4177
Q12	8-729-117-32	s	TRANSISTOR 2SC4177
Q13	8-729-143-07	s	TRANSISTOR 2SA1610-YY33
Q14-19	8-729-117-32	s	TRANSISTOR 2SC4177
Q20	8-729-143-07	s	TRANSISTOR 2SA1610-YY33
Q21	8-729-117-32	s	TRANSISTOR 2SC4177
Q22	8-729-117-32	s	TRANSISTOR 2SC4177
Q23	8-729-117-32	s	TRANSISTOR 2SC4177
Q24	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q25	8-719-117-32	s	TRANSISTOR 2SC4177
Q26	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q27	8-729-117-32	s	TRANSISTOR 2SC4177
Q28	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q29	8-729-117-32	s	TRANSISTOR 2SC4177
Q30	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q200	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q201	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q202-206	8-729-117-32	s	TRANSISTOR 2SC4177
Q207	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q208	8-729-117-32	s	TRANSISTOR 2SC4177
Q209	8-729-117-32	s	TRANSISTOR 2SC4177
Q210	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q211	8-729-143-07	s	TRANSISTOR 2SA1610-YY33
Q212	8-729-143-07	s	TRANSISTOR 2SA1610-YY33
Q213	8-729-118-56	s	TRANSISTOR 2SK852-X2
Q214	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q215	8-729-904-41	s	TRANSISTOR FMY3
Q216	8-729-117-32	s	TRANSISTOR 2SC4177
Q217	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q500	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q501	8-729-117-32	s	TRANSISTOR 2SC4177
Q502	8-729-907-46	s	TRANSISTOR IMZ1
Q700	8-729-807-34	s	TRANSISTOR 2SB1123-S
Q701	8-729-807-51	s	TRANSISTOR 2SD1623-S
Q702	8-729-807-34	s	TRANSISTOR 2SB1123-S
Q703	8-729-807-34	s	TRANSISTOR 2SB1123-S
Q704	8-729-807-34	s	TRANSISTOR 2SB1123-S
Q705	8-729-807-34	s	TRANSISTOR 2SB1123-S
Q706	8-729-807-51	s	TRANSISTOR 2SD1623-S
Q707	8-729-807-34	s	TRANSISTOR 2SB1123-S
Q708	8-729-807-34	s	TRANSISTOR 2SB1123-S
Q709	8-729-807-34	s	TRANSISTOR 2SB1123-S
Q710	8-729-807-34	s	TRANSISTOR 2SB1123-S
Q711	8-729-807-51	s	TRANSISTOR 2SD1623-S

Ref. No. or Q'ty	Part No.	SP	Description
Q712	8-729-807-34	s	TRANSISTOR 2SB1123-S
R1	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R2	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R3	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R4	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R5	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R6	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R7	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W [for NTSC]
R8	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W [for NTSC]
R9	1-208-771-11	s	METAL, CHIP 360 0.5% 1/10W [for NTSC]
	1-216-295-00	s	RES, CHIP 0 [for PAL]
R10	1-208-771-11	s	METAL, CHIP 360 0.5% 1/10W [for NTSC]
	1-216-295-00	s	RES, CHIP 0 [for PAL]
R11	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W [for NTSC]
R12	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R13	1-208-810-11	s	METAL, CHIP 15K 0.5% 1/10W [for PAL]
R14	1-208-784-11	s	METAL, CHIP 1.2K 0.5% 1/10W
R15	1-216-649-11	s	METAL, CHIP 820 0.5% 1/10W
R16	1-216-650-11	s	METAL, CHIP 910 0.5% 1/10W [for NTSC]
R17	1-216-650-11	s	METAL, CHIP 910 0.5% 1/10W [for NTSC]
R18	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R19	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R20	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R21	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R22	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R23	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R24	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R29	1-216-631-11	s	METAL, CHIP 150 0.5% 1/10W
R30	1-216-631-11	s	METAL, CHIP 150 0.5% 1/10W
R31	1-216-631-11	s	METAL, CHIP 150 0.5% 1/10W
R32	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R33	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R34	1-216-631-11	s	METAL, CHIP 150 0.5% 1/10W
R35	1-216-631-11	s	METAL, CHIP 150 0.5% 1/10W
R36	1-216-631-11	s	METAL, CHIP 150 0.5% 1/10W
R37	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R38	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R39	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R40	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R41	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W [for NTSC]
	1-216-295-00	s	RES, CHIP 0 [for PAL]
R42	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W [for NTSC]
	1-216-295-00	s	RES, CHIP 0 [for PAL]
R43	1-216-631-11	s	METAL, CHIP 150 0.5% 1/10W
R44	1-216-635-11	s	METAL, CHIP 220 0.5% 1/10W
R45	1-216-635-11	s	METAL, CHIP 220 0.5% 1/10W
R46	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W

Ref. No. or Q'ty	Part No.	SP	Description
R47	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R48	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R49	1-216-655-11	s	METAL, CHIP 1.5K 0.5% 1/10W
R50	1-216-635-11	s	METAL, CHIP 220 0.5% 1/10W
R51	1-216-655-11	s	METAL, CHIP 1.5K 0.5% 1/10W
R52	1-216-635-11	s	METAL, CHIP 220 0.5% 1/10W
R53	1-216-655-11	s	METAL, CHIP 1.5K 0.5% 1/10W
R54	1-216-635-11	s	METAL, CHIP 220 0.5% 1/10W
R55	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R56	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R57	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R58	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R59	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R60	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R61	1-216-133-00	s	METAL, CHIP 3.3M 5% 1/10W
R63	1-216-133-00	s	METAL, CHIP 3.3M 5% 1/10W
R64	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R65	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R66	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R67	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R68	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R69	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R70	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R71	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R72	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R73	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R74	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R75	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R76	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R77	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R78	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R79	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R80	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R81	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R82	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R83	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R84	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R85	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R86	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R87	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R88	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R89	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R90	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R91	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R92	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R93	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R94	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R95	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R96	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R97	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R98	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R99	1-208-800-11	s	METAL, CHIP 5.6K 0.5% 1/10W
R100	1-208-800-11	s	METAL, CHIP 5.6K 0.5% 1/10W
R101	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R102	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R103	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R104	1-218-766-11	s	METAL, CHIP 390K 0.5% 1/10W
R105	1-216-696-11	s	METAL, CHIP 75K 0.5% 1/10W
R106	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W

Ref. No. or Q'ty	Part No.	SP	Description
R107	1-216-696-11	s	METAL, CHIP 75K 0.5% 1/10W
R108	1-218-766-11	s	METAL, CHIP 390K 0.5% 1/10W
R111	1-216-295-00	s	RES, CHIP 0
R116	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R117	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R118	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W
R121	1-216-295-00	s	RES, CHIP 0
R126	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R127	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R128-132	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R133	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R134	1-216-627-11	s	METAL, CHIP 100 0.5% 1/10W
R135	1-216-627-11	s	METAL, CHIP 100 0.5% 1/10W
R136	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R137	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R138	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R140	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R141	1-216-295-00	s	RES, CHIP 0
R142	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R144	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R146	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R147	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R148	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R149	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R150	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R152	1-218-766-11	s	METAL, CHIP 390K 0.5% 1/10W
R153	1-216-619-11	s	METAL, CHIP 47 0.5% 1/10W
R154	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R155	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R156	1-216-696-11	s	METAL, CHIP 75K 0.5% 1/10W
R157	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R158	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W
R159	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R160	1-208-784-11	s	METAL, CHIP 1.2K 0.5% 1/10W
R161	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R162	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R163	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R164	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R165	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R167	1-216-295-00	s	RES, CHIP 0
R168	1-216-295-00	s	RES, CHIP 0
R170-189	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R190	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R191	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R193	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R195	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R196	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R198	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R200	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R201	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R202	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R203	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R204	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R205	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R206	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R207	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R208	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R209	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R210	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R211	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R212	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R213	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R214	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R215	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R216	1-216-619-11	s	METAL, CHIP 47 0.5% 1/10W
R217	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R218	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R219	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R220	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R221	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R222	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R223	1-216-635-11	s	METAL, CHIP 220 0.5% 1/10W
R224	1-216-647-11	s	METAL, CHIP 680 0.5% 1/10W
R225	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R226	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R227	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R229	1-218-763-11	s	METAL, CHIP 300K 0.5% 1/10W
R230	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R231	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R232	1-216-647-11	s	METAL, CHIP 680 0.5% 1/10W
R233	1-216-009-00	s	METAL, CHIP 22 5% 1/10W
R234	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R235	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R236	1-216-614-11	s	METAL, CHIP 30 0.50% 1/10W
R237	1-216-633-11	s	METAL, CHIP 180 0.5% 1/10W
R238	1-216-649-11	s	METAL, CHIP 820 0.5% 1/10W
R239	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R240	1-208-784-11	s	METAL, CHIP 1.2K 0.5% 1/10W
R241	1-216-635-11	s	METAL, CHIP 220 0.5% 1/10W
R242	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R243	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R244	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R245	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R246	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R247	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R248	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R249	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R250	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R251	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R252	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R253	1-216-081-00	s	METAL, CHIP 22K 5% 1/10W
R254	1-218-763-11	s	METAL, CHIP 300K 0.5% 1/10W
R255	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R256	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R257	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R258	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R259	1-216-646-11	s	METAL, CHIP 620 0.5% 1/10W
R260	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R261	1-216-649-11	s	METAL, CHIP 820 0.5% 1/10W
R262	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R263	1-216-117-00	s	METAL, CHIP 680K 5% 1/10W
R264	1-208-801-11	s	METAL, CHIP 6.2K 0.5% 1/10W
R265	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R266	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W
R267	1-216-295-00	s	RES, CHIP 0
R268	1-216-652-11	s	METAL, CHIP 1.1K 0.5% 1/10W
R269	1-216-656-11	s	METAL, CHIP 1.6K 0.5% 1/10W
R270	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SP	Description
R271	1-216-684-11	s	METAL, CHIP 24K 0.5% 1/10W
R272	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R273	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R274	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R275	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R276	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R277	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R278	1-216-690-11	s	METAL, CHIP 43K 0.5% 1/10W
R279	1-208-812-11	s	METAL, CHIP 18K 0.5% 1/10W
R280	1-216-133-00	s	METAL, CHIP 3.3M 5% 1/10W
R281	1-208-799-11	s	METAL, CHIP 5.1K 0.5% 1/10W
R282	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W [for NTSC]
	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W [for PAL]
R284	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R285	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R286	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R287	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R288	1-216-121-00	s	METAL, CHIP 1M 5% 1/10W
R289	1-216-053-00	s	METAL, CHIP 1.5K 5% 1/10W
R290	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R291	1-216-079-00	s	METAL, CHIP 18K 5% 1/10W
R292	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R293	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R294	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R297	1-216-295-00	s	RES, CHIP 0
R299	1-216-295-00	s	RES, CHIP 0
R300	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W [for NTSC]
R301	1-216-295-00	s	RES, CHIP 0 [for PAL]
R302	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R303	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R304	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R305	1-218-766-11	s	METAL, CHIP 390K 0.5% 1/10W
R306	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R307	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W
R308	1-216-041-00	s	METAL, CHIP 470 5% 1/10W
R309	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W [for NTSC]
R310	1-216-295-00	s	RES, CHIP 0 [for PAL]
R311	1-216-696-11	s	METAL, CHIP 75K 0.5% 1/10W
R313	1-216-295-00	s	RES, CHIP 0
R315	1-216-295-00	s	RES, CHIP 0
R316	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R318	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R319	1-216-685-11	s	METAL, CHIP 27K 0.5% 1/10W
R320	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R321	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R322	1-216-655-11	s	METAL, CHIP 1.5K 0.5% 1/10W
R323	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R324	1-216-671-11	s	METAL, CHIP 6.8K 0.5% 1/10W
R325	1-216-673-11	s	METAL, CHIP 8.2K 0.5% 1/10W
R326	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R327	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R328	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R329	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R330	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R331	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W

Ref. No. or Q'ty	Part No.	SP	Description
R332	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R333	1-216-295-00	s	RES, CHIP 0 [for NTSC]
R334	1-216-295-00	s	RES, CHIP 0 [for PAL]
R337	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R338	1-216-045-00	s	METAL, CHIP 680 5% 1/10W
R339	1-208-801-11	s	METAL, CHIP 6.2K 0.5% 1/10W [for NTSC]
	1-208-800-11	s	METAL, CHIP 5.6K 0.5% 1/10W [for PAL]
R340	1-208-801-11	s	METAL, CHIP 6.2K 0.5% 1/10W
R341	1-216-655-11	s	METAL, CHIP 1.5K 0.5% 1/10W [for NTSC]
	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W [for PAL]
R342	1-216-655-11	s	METAL, CHIP 1.5K 0.5% 1/10W
R343	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R345	1-208-801-11	s	METAL, CHIP 6.2K 0.5% 1/10W
R346	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R347	1-216-029-00	s	METAL, CHIP 150 5% 1/10W
R348	1-216-295-00	s	RES, CHIP 0
R349	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R350	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R351	1-216-295-00	s	RES, CHIP 0
R352	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R353	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R354	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R355	1-216-674-11	s	METAL, CHIP 9.1K 0.5% 1/10W
R356	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R357	1-216-129-00	s	METAL, CHIP 2.2M 5% 1/10W [for PAL]
R358	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R359	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R360	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R361	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R362	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R363	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W [for NTSC]
	1-216-295-00	s	RES, CHIP 0 [for PAL]
R364	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R365	1-216-295-00	s	RES, CHIP 0
R366	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R367	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R368	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R369	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R370	1-216-045-00	s	METAL, CHIP 680 5% 1/10W
R371	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R372	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R373	1-208-814-11	s	METAL, CHIP 22K 0.5% 1/10W
R374	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R375	1-216-029-00	s	METAL, CHIP 150 5% 1/10W
R376	1-216-029-00	s	METAL, CHIP 150 5% 1/10W
R377	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R378	1-216-029-00	s	METAL, CHIP 150 5% 1/10W
R379	1-216-029-00	s	METAL, CHIP 150 5% 1/10W
R380	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R381	1-216-688-11	s	METAL, CHIP 36K 0.5% 1/10W
R382	1-208-810-11	s	METAL, CHIP 15K 0.5% 1/10W
R397-411	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R412	1-216-033-00	s	METAL, CHIP 220 5% 1/10W

Ref. No. or Q'ty	Part No.	SP	Description
R414	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R415	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R417-421	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R422	1-218-763-11	s	METAL, CHIP 300K 0.5% 1/10W
R423	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R424	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R425	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R426	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R427	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R428	1-216-025-00	s	METAL, CHIP 100 5% 1/10W
R429	1-216-017-00	s	METAL, CHIP 47 5% 1/10W
R430	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R431	1-216-647-11	s	METAL, CHIP 680 0.5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-215-417-00	s	METAL 680 1% 1/6W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R432	1-208-806-11	s	METAL, CHIP 10K 0.5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-215-445-00	s	METAL 10K 1% 1/6W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R434	1-216-049-11	s	METAL, CHIP 1K 0.5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-215-421-00	s	METAL 1K 1% 1/6W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R435	1-216-049-11	s	METAL, CHIP 1K 0.5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-215-421-00	s	METAL 1K 1% 1/6W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R500	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R501	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R502	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R503	1-218-772-11	s	METAL 680K 0.5% 1/10W
R516	1-218-764-11	s	METAL, CHIP 330K 0.5% 1/10W
R517	1-216-663-11	s	METAL, CHIP 3.3K 0.5% 1/10W
R518	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R519	1-216-627-11	s	METAL, CHIP 100 0.5% 1/10W
R520	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R521	1-208-801-11	s	METAL, CHIP 6.2K 0.5% 1/10W
R522	1-216-666-11	s	METAL, CHIP 4.3K 0.5% 1/10W
R523	1-216-637-11	s	METAL, CHIP 270 0.5% 1/10W
R524	1-216-295-00	s	RES, CHIP 0
R526	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W [for PAL]
R529	1-208-784-11	s	METAL, CHIP 1.2K 0.5% 1/10W
R527	1-208-789-11	s	METAL, CHIP 2K 0.5% 1/10W
R528	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R530	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R531	1-216-649-11	s	METAL, CHIP 820 0.5% 1/10W
R532	1-208-785-11	s	METAL, CHIP 1.3K 0.5% 1/10W
R533	1-216-097-00	s	METAL, CHIP 100K 5% 1/10W
R534	1-216-631-11	s	METAL, CHIP 150 0.5% 1/10W
R535	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R536	1-216-631-11	s	METAL, CHIP 150 0.5% 1/10W
R537	1-216-609-11	s	METAL, CHIP 18 0.5% 1/10W [for NTSC]
	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W [for PAL]
R538	1-216-625-11	s	METAL, CHIP 82 0.5% 1/10W [for NTSC]
	1-216-613-11	s	METAL, CHIP 27 0.5% 1/10W [for PAL]
R539	1-216-656-11	s	METAL, CHIP 1.6K 0.5% 1/10W [for NTSC]
	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W [for PAL]
R540	1-216-631-11	s	METAL, CHIP 150 0.5% 1/10W
R541	1-216-631-11	s	METAL, CHIP 150 0.5% 1/10W
R542	1-216-689-11	s	METAL, CHIP 39K 0.5% 1/10W [for PAL]
R543	1-208-784-11	s	METAL, CHIP 1.2K 0.5% 1/10W
R544	1-208-784-11	s	METAL, CHIP 1.2K 0.5% 1/10W
R545	1-218-763-11	s	METAL, CHIP 300K 0.5% 1/10W
R546	1-216-619-11	s	METAL, CHIP 47 0.5% 1/10W
R547	1-216-133-00	s	METAL, CHIP 3.3M 5% 1/10W
R548	1-216-069-00	s	METAL, CHIP 6.8K 5% 1/10W
R549	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R550	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R551	1-208-784-11	s	METAL, CHIP 1.2K 0.5% 1/10W
R552	1-216-655-11	s	METAL, CHIP 1.5K 0.5% 1/10W
R553	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R554	1-216-295-00	s	RES, CHIP 0
R555	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R556	1-216-671-11	s	METAL, CHIP 6.8K 0.5% 1/10W
R557	1-208-774-11	s	METAL, CHIP 470 0.5% 1/10W
R558	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R559	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R560	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R561	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R562	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R563	1-216-057-00	s	METAL, CHIP 2.2K 5% 1/10W
R565	1-216-646-11	s	METAL, CHIP 620 0.5% 1/10W
R566	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R567	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R568	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R569	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R570	1-216-646-11	s	METAL, CHIP 620 0.5% 1/10W
R700-704	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R705	1-208-822-11	s	METAL, CHIP 47K 0.5% 1/10W
R706	1-216-089-00	s	METAL, CHIP 47k 5% 1/10W
R707	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R708	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R709	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R710	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R711	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R712	1-216-043-00	s	METAL, CHIP 560 5% 1/10W

(VPR-12/12P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R713	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R714	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R715	1-216-049-11	s	METAL, CHIP 1K 0.5% 1/10W [for UC:S/N 10091 and higher] [for J :S/N 10066 and higher] [for SY:S/N 10116 and higher]
	1-216-073-00	s	METAL 10K 5% 1/10W [for UC:S/N 10001 through 10090] [for J :S/N 10001 through 10065] [for SY:S/N 10001 through 10115]
R716	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R717	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R718	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R719	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R720	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R721	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R722	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R723	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R724	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R725	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R726	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R727	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R728	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R729	1-216-043-00	s	METAL, CHIP 560 5% 1/10W
R730	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R731	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R732	1-216-049-11	s	METAL, CHIP 1K 5% 1/10W
R733	1-216-295-00	s	RES, CHIP 0
RV200	1-237-032-11	s	RES, ADJ METAL 500
RV201	1-237-037-11	s	RES, ADJ METAL 20K
RV202	1-237-036-11	s	RES, ADJ METAL 10K
RV500	1-237-031-11	s	RES, ADJ METAL 200

VR-194 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-657-808-11	o	PRINTED CIRCUIT BOARD, VR-194
CN1	1-566-758-11	o	CONNECTOR 3P, MALE
CN2	1-566-758-11	o	CONNECTOR 3P, MALE
CN3	1-566-758-11	o	CONNECTOR 3P, MALE
CN4	1-566-758-11	o	CONNECTOR 3P, MALE
CN558	1-569-762-11	s	CONNECTOR, BOARD TO BOATD 20P
R1	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R2	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R3	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R4	1-216-295-00	s	RES, CHIP 0
R5	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R6	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R7	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R8	1-216-295-00	s	RES, CHIP 0
R9	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R10	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R11	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R12	1-216-295-00	s	RES, CHIP 0
R13	1-208-803-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R14	1-216-661-11	s	METAL, CHIP 2.7K 0.5% 1/10W
R15	1-216-687-11	s	METAL, CHIP 33K 0.5% 1/10W
R16	1-216-295-00	s	RES, CHIP 0
SW1	1-570-863-11	s	SWITCH, SLIDE
SW2	1-570-863-11	s	SWITCH, SLIDE
SW3	1-570-863-11	s	SWITCH, SLIDE
SW4	1-570-863-11	s	SWITCH, SLIDE

VR-205 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
6pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
1pc	1-565-978-11	o	HOUSING, 6P
1pc	1-657-814-11	o	PRINTED CIRCUIT BOARD, VR-205
RV1	1-241-577-11	s	RES, VAR CARBON 20k/20k

VR-206 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
3pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
1pc	1-569-618-11	o	HOUSING, 3P
1pc	1-657-809-11	o	PRINTED CIRCUIT BOARD, VR-206
1pc	1-955-097-11	o	HARNESS, VR-VR
RV1	1-237-790-11	s	RES, VAR CARBON 10K

5-4. Frame List

Ref. No. or Q'ty	Part No.	SP	Description
2pcs	1-454-334-61	s	SOLENOID
1pc	1-454-383-31	s	SOLENOID
1pc	1-454-607-21	s	SOLENOID
1pc	1-507-743-21	s	JACK, MINI STEREO
1pc	1-507-863-51	s	JACK, PHONE
1pc ⚠	1-532-525-31	s	BREAKER, CIRCUIT 6.3A 125V
5pcs	1-561-336-00	s	CONNECTOR, BNC, FEMALE
1pc	1-698-335-11	s	MOTOR, DC SVD-1489
2pcs	1-774-157-11	s	CONVERTER, COAXIAL CONNECTOR
1pc	1-775-781-11	s	CABLE, COAXIAL 220mm
1pc	1-775-781-21	s	CABLE, COAXIAL 220mm
1pc	1-775-782-11	s	CABLE, COAXIAL 240mm
1pc	1-801-022-11	s	DISPLAY MODULE, LIQUID CRYSTEL
1pc	1-810-573-11	s	SENSOR, DEW CONDENSATION
1pc	8-825-770-73	s	HEAD, EF291-21
1pc	8-825-779-71	s	CTL HEAD, PS244-21D
1pc	8-825-920-01	s	HEAD, AUIDO EPS244-2103J
1pc	8-835-440-01	s	MOTOR DN20-Q7Z1B
2pcs	8-835-441-01	s	MOTOR R432276751A
1pc	8-835-534-01	s	MOTOR, DC SCV-0702A/J-N

HARNESS (ADA-CP409)
(CN552/ADA-44 board to CN409/CP-260 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-955-101-11	o	HARNESS, ADA-CP409
CN552	1-573-183-11	o	HOUSING, 13P
12pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
CN409	1-573-183-11	o	HOUSING, 13P
12pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32

HARNESS (ADA-CP410)
(CN551/ADA-44 board to CN410/CP-260 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-955-100-11	o	HARNESS, ADA-CP410
CN551(12pcs)	1-565-977-11	s	CONTACT, FEMALE AWG28-32
CN410(12pcs)	1-565-977-11	s	CONTACT, FEMALE AWG28-32

HARNESS (ADA-CP411)
(CN553/ADA-44 board to CN411/CP-260 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-955-113-11	o	HARNESS, ADA-CP411

HARNESS (AIF136-MB36)
(CN401/CP-260 board to CN921/MB-601 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-953-430-11	o	HARNESS, AIF136-MB36

HARNESS (BATT-CON)
(CN1/BATTERY CONNECTOR to CN915 and CN932/MB-601 board and CN442/FU-63 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-955-096-12	o	HARNESS, BATT-CON
CN1	1-766-377-12	s	CONNECTOR, BATTERY
CN915	1-569-617-11	o	HOUSING, 2P
1pc	1-565-977-11	s	CONTACT, FEMALE AWG28-32
CN932	1-535-893-11	o	TAB, FASTON
CN442	1-535-893-11	o	TAB, FASTON

HARNESS (BP-90)
(BP-90 BATTERY CONNECTOR to MB-601 board)

Ref. No. or Q'ty	Part No.	SP	Description
BATTERY	1-507-905-11	s	JACK, DC

HARNESS (BRAKER-FU)
(CIRCUIT BREAKER to W2/FU-63 board)
(EXT DC IN connector to W1/FU-63 board)

HARNESS (BRAKER-PSW)
(CIRCUIT BREAKER to CN602/PSW-31 board)

Ref. No. or Q'ty	Part No.	SP	Description
CN602	1-535-893-11	o	TAB, FASTON

HARNESS (CAM-CON)
(CN1011/CAMERA connector to CN444/FU-63 board, CN453/CC-66 board, CN109/SST-3 board, CN402/CP-260 board and CN252/DIF-31 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-955-118-11	o	HARNESS, CAM-CON
CN1011	1-562-245-11	o	CONNECTOR, CAMERA 26P, FEMALE
CN444	1-569-197-11	o	HOUSING, 4P
4pcs	1-569-191-11	o	CONTACT, FEMALE AWG22-26
CN453	1-569-521-11	o	HOUSING, 11P
10pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
CN109	1-565-978-11	o	HOUSING, 6P
6pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
CN402	1-569-620-11	o	HOUSING, 5P
1pc	1-565-977-11	s	CONTACT, FEMALE AWG28-32
3pcs	1-766-387-11	o	CONTACT, FEMALE AWG28-26

HARNESS (CAP-HN14)
(CN107/SST-3 board to CN1/CAPSTEN MOTOR)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-953-435-11	o	HARNESS, CAP-HN14

HARNESS (CC-CP)
(CN454/CC-66 board to CN413/CP-260 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-955-099-11	o	HARNESS, CC-CP
CN454	1-569-618-11	o	HOUSING, 3P
2pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
CN413	1-569-618-11	o	HOUSING, 3P
2pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32

HARNESS (CP-VR205)
(CN407/CP-260 board to CN1/VR-205 board)

Ref. No. or Q'ty	Part No.	SP	Description
CN407	1-565-978-11	o	HOUSING, 6P
6pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32

HARNESS (CP09-DUS)
(CN421/CP-260 board to CN1/DUS-339 board)

Ref. No. or Q'ty	Part No.	SP	Description
CN421	1-569-618-11	o	HOUSING, 3P
3pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
CN1	1-569-618-11	o	HOUSING, 3P
3pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32

HARNESS (CS25-26)
(CN1/CS-25 board to CN2/CS-26 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-948-401-12	s	HARNESS, CS25-26
CN1	1-569-196-11	o	HOUSING, 3P
3pcs	1-569-193-11	o	CONTACT, FEMALE
CN2	1-569-196-11	o	HOUSING, 3P
3pcs	1-569-193-11	o	CONTACT, FEMALE

(HARNESS (DC-OUT)
(CN1013/EXT DC OUT connector to CN930/MB-601 board)

Ref. No. or Q'ty	Part No.	SP	Description
CN1013	1-565-072-11	s	CONNECTOR, CIRCULAR 4P, FEMALE
CN930	1-569-618-11	o	HOUSING, 3P
2pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32

HARNESS (DPR-ADA56)
(CN207/DPR-62 board to CN556/ADA-44 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-955-111-11	o	HARNESS, DPR-ADA56

HARNESS (DPR-ADA59)
(CN208/DPR-62 board to CN559/ADA-44 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-955-112-11	o	HARNESS, DPR-ADA59

HARNESS (EQ-AH)
(CN304/EQ-54 board to CUE HEAD/AH-52 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-955-119-12	o	HARNESS, EQ-AH
CN304	1-569-196-31	o	HOUSING, 3P
2pcs	1-569-193-11	o	CONTACT, FEMALE

Ref. No. or Q'ty	Part No.	SP	Description
HARNESS (EQ-DR)			
(CN301 and CN303/EQ-54 board to CN2/DR-239 board)			
1pc	1-955-117-11	o	HARNESS, EQ-DR
CN301	1-569-199-11	o	HOUSING, 6P
2pcs	1-569-191-11	o	CONTACT, FEMALE AWG22-26
4pcs	1-569-193-11	o	CONTACT, FEMALE
CN303	1-569-199-41	o	HOUSING, 6P
2pcs	1-569-191-11	o	CONTACT, FEMALE AWG22-26
4pcs	1-569-193-11	o	CONTACT, FEMALE
CN2	1-580-582-11	o	HOUSING, 12P
4pcs	1-573-176-11	o	CONTACT, LY, FEMALE AWG22-26
8pcs	1-580-599-11	o	TERMINAL, SOLDERLESS
HARNESS (EXT DC GND)			
(EXT DC IN connector to CN931/MB-601 board)			
HARNESS (FU-CP)			
(CN445/FU-63 board to CN2/DC-85 board)			
(CN408/CP-260 board to CN1/DC-85 board)			
2pcs	1-955-108-11	o	HARNESS, FU-CP
HARNESS (HOT LINE)			
(CN441/FU-63 board to MB-601 board)			
CN441	1-535-893-11	o	TAB, FASTON
HARNESS (KEY-LCD)			
(CN463/KY-315 board to CN1 and CN2/AUDIO METER)			
1pc	1-955-095-11	o	HARNESS, KEY-LCD
CN463(10pcs)	1-565-977-11	s	CONTACT, FEMALE AWG28-32
CN1(8pcs)	1-569-193-11	o	CONTACT, FEMALE
HARNESS (MB-ADA)			
(CN914/MB-601 board to CN557/ADA-44 board)			
1pc	1-955-098-11	o	HARNESS, MB-ADA
CN914	1-569-618-11	o	HOUSING, 3P
3pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
CN557	1-569-618-11	o	HOUSING, 3P
3pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
HARNESS (MB-AH1)			
(CN949/MB-601 board to CUE ERASE HEAD and TC ERASE HEAD/AH-52 board)			
1pc	1-955-120-11	o	HARNESS, MB-AH1
CN949	1-569-199-11	o	HOUSING, 6P
4pcs	1-569-193-11	o	CONTACT, FEMALE
HARNESS (MB-AH2)			
(CN947/MB-601 board to TC HEAD/AH-52 board)			
1pc	1-955-121-11	o	HARNESS, MB-AH2
CN947	1-569-196-41	o	HOUSING, 3P
2pcs	1-569-193-11	o	CONTACT, FEMALE
HARNESS (MB-CC)			
(CN923/MB-601 board to CN451/CC-66 board)			
1pc	1-955-109-11	o	HARNESS, MB-CC
HARNESS (MB-DR1)			
(CN941/MB-601 board to CN3/DR-239 board)			
1pc	1-955-094-11	o	HARNESS, MB-DR1
CN941	1-565-979-11	o	HOUSING, 8P
8pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
CN3	1-565-979-11	o	HOUSING, 8P
8pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32

Ref. No. or Q'ty	Part No.	SP	Description
HARNESS (MB-DR2)			
(CN913/MB-601 board to CN1/DR-239 board)			
1pc	1-955-116-11	o	HARNESS, MB-DR2
CN913	1-580-585-11	o	HOUSING, 18P
6pcs	1-573-176-11	o	CONTACT, LY, FEMALE AWG22-26
12pcs	1-580-599-11	o	TERMINAL, SOLDERLESS
CN1	1-580-585-11	o	HOUSING, 18P
6pcs	1-573-176-11	o	CONTACT, LY, FEMALE AWG22-26
12pcs	1-580-599-11	o	TERMINAL, SOLDERLESS
HARNESS (MB-FE)			
(CN956/MB-601 board to FE HEAD/FE-11 board)			
1pc	1-955-122-11	o	HARNESS, MB-FE
CN956	1-569-196-21	o	HOUSING, 3P
1pc	1-569-191-11	o	CONTACT, FEMALE AWG22-26
2pcs	1-569-193-11	o	CONTACT, FEMALE
HARNESS (MB44-T TOPA)			
(CN944/MB-601 board to TAPE TOP SENSOR)			
(CN958/MB-601 board to TAPA END SENSOR)			
2pc	1-948-409-11	o	HARNESS, MB44-TTOPA
SENSOR	1-543-316-21	s	HEAD, SENSING (SMALL TYPE)
CN944	1-569-195-21	o	HOUSING, 2P
2pcs	1-569-193-11	o	CONTACT, FEMALE
CN958	1-569-195-21	o	HOUSING, 2P
2pcs	1-569-193-11	o	CONTACT, FEMALE
HARNESS (MB54-TR)			
(CN954/MB-601 board to CN1/TR-57 board)			
CN954(4pcs)	1-569-193-11	o	CONTACT, FEMALE
CN1	1-562-737-11	o	HOUSING, 4P
4pcs	1-564-831-11	o	CONTACT, FEMALE
HARNESS (MB56-CTL)			
(CN955/MB-601 board to CN1/CTL head)			
1pc	1-948-405-12	o	HARNESS, MB56-CTL
CN955	1-569-196-11	o	HOUSING, 3P
3pcs	1-569-193-11	o	CONTACT, FEMALE
CN1	1-562-735-11	o	HOUSING, 2P
2pcs	1-564-831-11	o	CONTACT, FEMALE
HARNESS (MB57-CS)			
(CN957/MB-601 board to CN1/CS-26 board)			
CN957(7pcs)	1-569-193-11	o	CONTACT, FEMALE
CN1(7pcs)	1-564-831-11	o	CONTACT, FEMALE
HARNESS (PSW-FU)			
(CN601/PSW-31 board to CN443/FU-63 board)			
1pc	1-948-737-11	o	HARNESS, PSW-FU
CN601	1-569-197-41	o	HOUSING, 4P
4pcs	1-569-193-11	o	CONTACT, FEMALE
CN443	1-569-197-41	o	HOUSING, 4P
4pcs	1-569-193-11	o	CONTACT, FEMALE
HARNESS (SST-ADA)			
(CN111/SST-3 board to CN554/ADA-44 board)			
(CN105/SST-3 board to CN1/CON-18 board)			
2pcs	1-955-104-11	o	HARNESS, SST-ADA
HARNESS (SST-CP)			
(CN110/SST-3 board to CN412/CP-260 board)			
1pc	1-955-103-11	o	HARNESS, SST-CP
CN110	1-568-523-11	s	HOUSING, 13P
CN412	1-568-523-11	s	HOUSING, 13P

HARNESS (SST-DET15)
(CN113/SST-3 board to CN1/DET-15 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-955-124-11	o	HARNESS, SST-DET15
CN113	1-569-196-41	o	HOUSING, 3P
3pcs	1-569-193-11	o	CONTACT, FEMALE
CN1	1-569-196-41	o	HOUSING, 3P
3pcs	1-569-193-11	o	CONTACT, FEMALE

HARNESS (SST-DET26)
(CN102/SST-3 board to CN1/DET-26 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-955-123-11	o	HARNESS, SST-DET26
CN102	1-569-197-11	o	HOUSING, 4P
4pcs	1-569-193-11	o	CONTACT, FEMALE
CN1	1-569-197-11	o	HOUSING, 4P
4pcs	1-569-193-11	o	CONTACT, FEMALE

HARNESS (SST-DSUB)
(CN106/SST-3 board to CN1010/REMOTE CONNECTOR)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-955-115-11	o	HARNESS, SST-DSUB
CN106	1-561-382-31	s	CONNECTOR, 10P, FEMALE

HARNESS (SST-FU)
(CN115/SST-3 board to CN446/FU-63 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-955-114-11	o	HARNESS, SST-FU

HARNESS (SST-KEY1)
(CN103/SST-3 board to CN461/KY-315 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-955-106-11	o	HARNESS, SST-KEY1

HARNESS (SST-KEY2)
(CN104/SST-3 board to CN462/KY-315 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-955-107-11	o	HARNESS, SST-KEY2

HARNESS (SST-SE)
(CN101/SST-3 board to CN1/SE-233 board)
(CN209/VPR-12 board to CN457/CC-66 board)

Ref. No. or Q'ty	Part No.	SP	Description
2pcs	1-955-105-11	o	HARNESS, SST-SE

HARNESS (TC5-VR15)
(CN112/SST-3 board to CN455/CC-66 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-953-433-11	o	HARNESS, TC5-VR15

HARNESS (TC8-CP18)
(CN108/SST-3 board to CN452/CC-66 board)
(CN555/ADA-44 board to CN206/DPR-62 board)

Ref. No. or Q'ty	Part No.	SP	Description
2pcs	1-953-429-11	o	HARNESS, TC8-CP18

HARNESS (TC9-CP19)
(CN302/EQ-54 board to CN1/SR-56 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-953-436-11	o	HARNESS, TC9-CP19

HARNESS (VPR-CC56)
(CN210/VPR-12 board to CN456/CC-66 board)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-955-110-11	o	HARNESS, VPR-CC56

HARNESS (VR-VR)
(CN1, CN2, CN3 or CN4/VR-194 board to VR-206 board)

Ref. No. or Q'ty	Part No.	SP	Description
4pcs	1-955-097-11	o	HARNESS, VR-VR
CNx	1-569-618-11	o	HOUSING, 3P
3pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32

HARNESS (XLR-(A)) [for UC,SY]
(AUDIO IN CH-1 connector to CN403/CP-260 board)
(AUDIO IN CH-2 connector to CN404/CP-260 board)
(AUDIO IN CH-3 connector to CN405/CP-260 board)
(AUDIO IN CH-4 connector to CN406/CP-260 board)

Ref. No. or Q'ty	Part No.	SP	Description
CH-x	1-566-616-11	s	CONNECTOR, XLR 3P, FEMALE
CN40x	1-569-618-11	o	HOUSING, 3P
3pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32

HARNESS (XLR-(A)) [for J]
(AUDIO OUT CH-1 connector to CN414/CP-260 board)
(AUDIO OUT CH-2 connector to CN415/CP-260 board)
(AUDIO OUT CH-3 connector to CN416/CP-260 board)
(AUDIO OUT CH-4 connector to CN417/CP-260 board)

Ref. No. or Q'ty	Part No.	SP	Description
CH-x	1-566-617-11	s	CONNECTOR, XLR 3P, MALE
CN41x	1-569-618-11	o	HOUSING, 3P
3pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32

HARNESS (XLR-(B)) [for UC,SY]
(AUDIO OUT CH-1 connector to CN414/CP-260 board)
(AUDIO OUT CH-2 connector to CN415/CP-260 board)
(AUDIO OUT CH-3 connector to CN416/CP-260 board)
(AUDIO OUT CH-4 connector to CN417/CP-260 board)

Ref. No. or Q'ty	Part No.	SP	Description
CH-x	1-566-617-11	s	CONNECTOR, XLR 3P, MALE
CN41x	1-569-618-11	o	HOUSING, 3P
3pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32

HARNESS (XLR-(B)) [for J]
(AUDIO IN CH-1 connector to CN403/CP-260 board)
(AUDIO IN CH-2 connector to CN404/CP-260 board)
(AUDIO IN CH-3 connector to CN405/CP-260 board)
(AUDIO IN CH-4 connector to CN406/CP-260 board)

Ref. No. or Q'ty	Part No.	SP	Description
CH-x	1-566-616-11	s	CONNECTOR, XLR 3P, FEMALE
CN40x	1-569-618-11	o	HOUSING, 3P
3pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32

5-5. Accessories List

Ref. No. or Q'ty	Part No.	SP	Description
1	A-6772-374-A	s	BELT ASSY, SHOULDER

5-6. Optional Fixtures List

Part No.	SP	Description
J-6001-820-A	o	UPPER DRUM ECCENTRICITY ADJUSTMENT TOOL (3)
J-6001-830-A	o	UPPER DRUM ECCENTRICITY ADJUSTMENT TOOL (2)
J-6031-840-B	o	MULTI CONNECTOR CABLE (CIBNC)
J-6080-840-A	o	SMALL MIRROR
J-6086-570-A	o	REFERENCE FLAT PLATE
J-6087-000-A	o	UPPER DRUM ECCENTRICITY ADJUSTMENT TOOL (5)
J-6152-450-A	o	WIRE CLEARANCE GAUGE SET
J-6322-420-A	o	TAPE GUIDE ADJUSTMENT DRIVER (45)
J-6322-420-3	o	TG DRIVER SPARE BIT (ACROSS 0.89)
J-6323-530-A	o	STOP WASHER FASTENING TOOL
J-6325-110-A	o	TORQUE SCREWDRIVER'S BIT (FOR M1.4)
J-6325-380-A	o	TORQUE SCREWDRIVER'S BIT (FOR M2)
J-6325-400-A	o	TORQUE SCREWDRIVER'S (FOR 3 KG)
J-6325-530-A	o	UPPER DRUM ECCENTRICITY ADJUSTMENT TOOL (6)
J-6326-120-A	o	HEXAGON BIT
J-6326-530-A	o	CASSETTE REFERENCE PLATE (L)
J-6326-940-A	o	S SIDE GAUGE
J-6329-350-A	o	REEL TABLE HEIGHT GAUGE, MW-935
J-6421-330-A	o	EXTENSION BOARD, BC-133
J-6421-340-A	o	EXTENSION BOARD, BC-134
J-6421-430-A	o	EXTENSION HARNESS, VIDEO
J-6421-440-A	o	EXTENSION HARNESS, AUDIO
J-7031-030-A	o	S-TENSION ARM POSITIONING PIN
J-7031-040-A	o	WEIGHT FOR S-TENSION ADJUSTMENT (W76.7)
J-7031-050-A	o	WEIGHT FOR S-TENSION (W 44)
J-7031-260-A	o	MASTER BLOCK (T2)
J-7031-270-A	o	MASTER BLOCK (S2)
J-7031-280-A	o	S-TEN ADJUSTING TABLE
J-7031-450-A	o	END SENSOR POSITIONING TOOL
J-7031-460-A	o	TORQUE SCREWDRIVER'S HEXAGONAL BIT (ACROSS 1.27)
2-034-697-00	o	CLEANING PIECE
7-651-000-10	o	SONY GREASE, SGL-601 (50 G)
7-651-000-11	o	SONY GREASE, SGL-801 (50 G)
7-661-018-18	o	MITSUBISHI DIAMOND MACHINE OIL HYDRO FLUID NT-68
7-700-736-05	o	L-SHAPED HEXAGONAL WRENCH (D=1.5 mm)
7-700-736-06	o	L-SHAPED HEXAGONAL WRENCH (D=0.9 mm)
8-960-073-01	o	ALIGNMENT TAPE, ZR5-1 [for NTSC]
8-960-073-11	o	ALIGNMENT TAPE, ZR2-1 [for NTSC]
8-960-073-51	o	ALIGNMENT TAPE, ZR5-1P [for PAL]
8-960-073-61	o	ALIGNMENT TAPE, ZR2-1P [for PAL]
9-911-053-00	o	THICKNESS GAUGE
9-919-573-01	o	CLEANING FLUID

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